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THE GRADUATE SCHOOL



TWENTY-EIGHTH YEAR

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Calendar, 1913-1914

1913		
Sept. 27,	Saturday,	Graduate School opens.
Oct. 14,	Tuesday,	Stated Faculty Meeting.
Oct. 31,	Friday,	Last day for filing applications for Enrollment.
Nov. 4,	Tuesday,	Election Day, Holiday.
Nov. 11,	Tuesday,	Stated Faculty Meeting.
Nov. 15,	Saturday,	Last day for filing Subject and Outline of Doctor's Thesis.
Nov. 15,	Saturday,	Last day for payment of fees.
Nov. 27-29 (inclusive),	Thur. to Sat.,	Thanksgiving Recess.
Dec. 1,	Monday,	Last day for filing title of Master's Thesis.
Dec. 9,	Tuesday,	Stated Faculty Meeting.
Dec. 22, 1913-Jan. 4, 1914	Mon. to Sun.,	Christmas Recess.
1914 (inclusive),		
Feb. 12,	Thursday,	Lincoln's Birthday, Holiday.
Feb. 22-23,	Sun. to Mon.,	Washington's Birthday, Holiday.
March 10,	Tuesday,	Stated Faculty Meeting.
April 6-13,	Mon. to Mon.,	Easter Recess.
April 14,	Tuesday,	Stated Faculty Meeting.
April 15,	Wednesday,	Last day for presenting Doctor's Thesis.
May 1,	Friday,	Last day for presenting Master's Thesis.
May 12,	Tuesday,	Stated Faculty Meeting.
May 11-May 23 (inclusive),	Mon. to Sat.,	Final Examinations.
June 10,	Wednesday,	COMMENCEMENT.

Officers and Office Hours

The Dean of the Graduate School may be seen in the Syndic's Office, on the tenth floor of the University Building, Washington Square, Saturdays in October, 10 a. m. to 1 p. m., and during the week at Butler Hall, University Heights; also by appointment. The Secretary of the Graduate School may be seen in the Syndic's Office, Washington Square, daily, 10-1, Friday 2.30-4.30, and at other times by appointment.

The University Registrar may be seen in his office, on the tenth floor of the University Building, daily, after September 12, from 9.30 a. m. to 5 p. m.

Applications for Matriculation or Enrollment should be addressed to the Secretary of the Graduate School, Washington Square.

The consultation hours of the Professors will be found given in this circular under their respective departments.

NEW YORK UNIVERSITY
THE GRADUATE SCHOOL

FACULTY OF THE SCHOOL, 1912-1913

- ELMER ELLSWORTH BROWN, PH.D., LL.D.,
Chancellor of the University, Washington Square.
- JOHN H. MACCRACKEN, PH.D., LL.D.,
*Syndic of the University; Professor of
Politics and Secretary of the Graduate
School,* Washington Square.
-
- DANIEL W. HERING, C.E., PH.D., LL.D.,
Dean of the Faculty, Professor of Physics, 128 West 183rd St.
- ABRAM S. ISAACS, PH.D.,
*Professor of Semitic Languages
and Literatures,* 471 Ellison St., Paterson, N. J.
- FRANCIS HOVEY STODDARD, PH.D.,
Professor of the English Language and Literature, 22 West 68th St.
- WILLIAM KENDALL GILLET, M.A.,
Professor of Romance Languages, Pelham Manor, N. Y.
- EGBERT LE FEVRE, M.D., Sc.D., LL.D.,
Professor of Therapeutics and Clinical Medicine, 338 East 26th St.
- ERNEST GOTTLIEB SIHLER, PH.D.,
Professor of the Latin Language and Literature, University Heights.
- MARSHALL S. BROWN, M.A.,
Professor of History and Political Science, University Heights.
- CHARLES L. BRISTOL, PH.D.,
Professor of Biology, University Heights.
- LAWRENCE A. MCLOUTH, M.A.,
*Professor of the German Language
and Literature,* University Heights.

JOSEPH FRENCH JOHNSON, D.C.S., <i>Professor of Political Economy and Finance,</i>	Washington Square.
ROBERT MACDOUGALL, PH.D., <i>Professor of Descriptive Psychology,</i>	Washington Square.
JAMES E. LOUGH, PH.D., <i>Professor of Experimental Psychology,</i>	Washington Square.
THOMAS W. EDMONDSON, PH.D., <i>Professor of Mathematics,</i>	University Heights.
JOHN A. MANDEL, SC.D., <i>Professor of Chemistry,</i>	338 East 26th St.
WILLIAM H. PARK, M.D., LL.D., <i>Professor of Bacteriology and Hygiene,</i>	338 East 26th St.
CHARLES GRAY SHAW, PH.D., <i>Professor of Ethics and Assistant Professor of Philosophy,</i>	University Heights.
ARCHIBALD L. BOUTON, M.A., <i>Professor of Rhetoric,</i>	University Heights.
WILLIAM E. WATERS, PH.D., <i>Professor of Greek,</i>	430 West 118th St.
THOMAS M. BALLIET, PH.D., <i>Professor of the Science of Education,</i>	Washington Square.
GEORGE B. WALLACE, M.D., <i>Professor of Pharmacology,</i>	338 East 26th St.
FREDERICK H. WILKENS, PH.D., <i>Associate Professor of German,</i>	University Heights.
ARTHUR E. HILL, PH.D., <i>Professor of Analytical Chemistry, Acting Director of the Havemeyer Chemical Lab- oratory,</i>	University Heights.
J. LORING ARNOLD, PH.D., <i>Professor of Electrical Engineering,</i>	University Heights.
JOSEPH EDMUND WOODMAN, S.D., <i>Professor of Geology, Director of Laboratory of Geology,</i>	University Heights.
HERMAN H. HORNE, PH.D., <i>Professor of the History of Education and of the History of Philosophy,</i>	Washington Square.

-
- HOLMES CONDUCT JACKSON, PH.D.,
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of Physiology,* 338 East 26th St.
- HAROLD D. SENIOR, M.B., F.R.C.S.,
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istration,* Washington Square.
- LYMAN P. POWELL, B.A.,
*Professor of Government and Business
Ethics.* Washington Square.
- LEE GALLOWAY, PH.D.,
*Assistant Professor of Commerce and
Industry,* Washington Square.
- JOHN P. SIMMONS, SC.D.,
Assistant Professor of Chemistry, University Heights.
- EDWIN J. CLAPP, PH.D.,
*Assistant Professor of Trade and
Transportation,* Washington Square.
- THEODORE F. JONES, PH.D.,
Assistant Professor of History, University Heights.
- CHARLES W. GERSTENBERG, PH.B., LL.B.,
Assistant Professor of Finance, Washington Square.
- PAUL R. RADOSAVLJEVICH, PH.D., PD.D.,
*Assistant Professor of Experimental
Pedagogy,* Washington Square.
- WILLIS FLETCHER JOHNSON, L.H.D.,
*Honorary Professor of the History of
American Foreign Relations.*
- RUDOLPH M. BINDER, PH.D.,
Lecturer on Sociology, Washington Square.
- LOUIS DELAMARRE, PH.D.,
*Lecturer on the French Language
and Literature,* Washington Square.
- JAMES SULLIVAN, PH.D.,
Lecturer on Methods in History, Washington Square.
- MILLS E. CASE,
Lecturer on Statistics, Washington Square.

ERICH HAUSMANN, Sc.D.,

Lecturer on Electricity,

University Heights.

GEORGE R. MONTGOMERY, Ph.D.,

Lecturer on Philosophy,

Washington Square.

Lecturer on Constitutional Law.

ARTHUR HUNTINGTON NASON, M.A.,

Instructor in English,

University Heights.

JOSEPH KAHN, Ph.D.,

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Washington Square.

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University Heights.

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University Heights.

CHARLES J. MOORE, Ph.D.,

Instructor in Chemistry,

University Heights.

FRANK ANDREWS FALL, M.A.,

Bursar of the University,

Washington Square.

GEORGE C. SPRAGUE, Ph.D.,

Registrar of the University,

Washington Square.

THE GRADUATE SCHOOL

General Statement

THE Graduate School of New York University offers advanced courses of instruction to men and women who have received the degree of Bachelor from some college in good standing. It is the aim of the School to afford those who have already enjoyed a liberal education opportunity to pursue advanced study, and to make independent research in the line of their special chosen subject. An effort is made so to shape the methods of instruction as not only to make the student well versed in the contemporary knowledge of his department, but also to fit him to add to that knowledge by scientific investigation and discovery. Students who have satisfactorily completed courses of study and have complied with the requirements governing the granting of degrees as given below, upon recommendation of the Faculty, are granted the degree of Master of Arts, Master of Science, Doctor of Philosophy, or Doctor of Science, as the case may be. These degrees will be conferred by the University only upon completion of resident graduate study, tested by examinations and by theses, and are given, in no case, *honoris causa*, or for work done *in absentia*.

Regulations Governing Admission and Enrollment

1. To secure matriculation in the Graduate School a certificate must be submitted showing that the candidate is a graduate of a college of good standing, and has received the baccalaureate degree in arts, science, philosophy or letters. An official form for this purpose will be forwarded by the University upon application.

In an extraordinary case, where the baccalaureate degree has not been received, as, for example, in the case of a person who has studied in a foreign University where the degree is not given, a candidate may be received by special act of the Faculty upon the presentation of testimonials establishing the fact that he has completed a course of study

equivalent to the undergraduate college course of New York University. As a general rule equivalents are not accepted from American students and the applicant is advised to enroll in the Collegiate Division as a candidate for a recognized Bachelor's degree.

2. Students not qualified for matriculation may attend the classes of the Graduate School provided they are qualified in the judgment of the Professor in charge to profit by the work of the class. Students so admitted are classed as auditors—and are not entitled to take the final examinations or to receive University credit toward advanced degrees.

3. Certain courses, those marked in this circular with an asterisk (*), intended primarily for graduates, are open also to students of other departments of the University. Students pursuing graduate courses under this rule are enrolled not as graduate students, but as students of the school in which they are candidates for degrees, and upon the successful completion of a course receive credit for the same in accordance with the regulations of that school.

4. All students before entering upon a course in the Graduate School, whether as matriculants or otherwise, must fill out and file with the University Registrar or the Secretary of the school an application for enrollment for the current year. This application must be made upon the official blank furnished by the University, and must show the courses it is proposed to enter. This application must be filed not later than the thirty-first day of October for courses given the first term. Students permitted to enroll after that date by special action of the Faculty, will be required to pay an additional fee of \$5.00. Failure to enroll will debar the student from receiving credit for the courses of the current year.

5. No candidate shall be considered as finally enrolled until the Faculty shall have acted upon and approved the application so filed. Upon the admission of the candidate to final enrollment, he will receive from the Secretary a certificate of admission.

6. A matriculated student is held to remain in continuous attendance so long as such student enrolls and properly attends at least one course in each academic year. In the case, however, of students who have completed the number of courses required for a degree, residence will be considered to extend over an additional period of one year, provided an outline for a thesis shall have been duly

presented within one year subsequent to the completion of the last of the aforesaid courses, and an enrollment fee of \$5.00 be paid. In the case of candidates for the Doctor's degree an additional year or more will be allowed for the completion of the thesis subsequent to the filing of the outline, provided the student enroll and pay an enrollment fee of \$5.00 each year.

7. Students will be considered candidates for a degree under the conditions prescribed for such candidacy at the time of their matriculation, provided they remain in continuous attendance; interruption of such attendance for one year entails re-matriculation. The rules in force at the time of such re-matriculation shall govern the candidacy for the degree.

Regulations Governing the Election of Courses and Credit for the Same

1. By a Course in the Graduate School is intended the work prescribed for a class which meets the instructor two hours each week for at least thirty weeks. A Half Course is the work prescribed for a class which meets one hour a week. In the Department of Education in certain lecture courses three hours a week of class room attendance constitutes a course. Unless otherwise stated, two half courses will be accepted as equivalent to one full course in all requirements.

The nature of graduate work is such that it is expected that the time given by the student to work outside of the class room, in the way of collateral reading, independent research, and prescribed themes, will be at least double the amount of time ordinarily required in connection with an equivalent amount of class-room work in the University College, or in other departments of the University, and in many cases may much exceed this minimum amount.

2. Students are permitted to pursue any courses they may elect, subject to the general supervision of the Faculty, and to such regulations as to preliminary qualifications as the Professor in charge may prescribe, and subject further in the case of candidates for degrees to the requirements given below.

3. Students desiring to take more than three full courses in any one year must secure the special consent of the Faculty, which will

be granted, in ordinary cases, only when the student is devoting his whole time to Graduate study.

4. To receive credit for a course, a student must be in regular attendance throughout the year, and must pass a satisfactory final written examination under the conditions given below. A report of the result of each year's examinations will be made by the Secretary to each student within one month from the time of the examination.

(a) The duration of each examination shall be from three to four hours.

(b) Extended written work, during the progress of a course, such as themes, monographs, or theses, presented before the day of examination, may, at the professor's discretion, be reckoned as covering one half of the time required for examination. Such written work may be considered by the Committee as a part of the examination exercise.

(c) The least time devoted in any case to the written examination on the part of a student shall be one hour and a half.

5. Credit may be given for graduate work done in certain Universities of established reputation in graduate work, or in certain theological seminaries when such work is not credited toward a professional degree, when certified by the proper authorities. In all cases, residence at this University for at least one year is required of candidates for degrees.

6. Credit may be given for graduate work in the Summer School of New York University under the following conditions:

(a) The course must be substantially identical with some course given in the Graduate School, must be given by a member of the Graduate School Faculty, or under his direction, and must be equal in the number of hours of attendance required to the corresponding course in the Graduate School.

(b) To secure credit, a student must undertake no work in any one session of the Summer School beyond the one full course.

Regulations Governing the Granting of Advanced Degrees

Students, regularly matriculated in the Graduate School, may be recommended for the degrees of Master of Arts (M.A.), Master of Science (M.S.), Doctor of Philosophy (Ph.D.) and Doctor of Science (Sc.D.) respectively, upon satisfactory fulfillment of the following requirements:

Degree of Master

1. The degree of Master will be granted to none save Bachelors of at least one year's standing.

2. Candidates for the degree of Master must have satisfactorily completed four or more full courses, two at least of which shall be in one department. Candidates for Master of Arts must present three courses selected from Groups I-V; candidates for Master of Science must present three courses in Groups VI-VII. At least two of the four required courses must be taken at New York University.

3. In addition to the four courses so prescribed, candidates for the Master's degree will be required, unless otherwise ordered by special action of the Faculty, to submit a thesis—which thesis will be referred to a special committee of the Faculty, who will report in writing upon its acceptance or rejection.

Requirements for the Master's Thesis

(a) The subject of the thesis must belong to the field of knowledge in which the student presents at least two of his courses, and must be chosen under the direction of a professor conducting one of those courses.

(b) The title, with the written approval of the professor, must be in the hands of the Secretary of the Faculty on or before December 1st.

(c) The thesis must not be a mere essay; it must present evidence of a thorough knowledge of some limited special field, obtained by recourse to original sources.

(d) A thorough knowledge of the accessible literature bearing upon the subject will be required. As evidence of this, an exhaustive bibliography of the topic under investigation must be appended, to which constant reference must be made in the body of the thesis.

(e) An appropriate length would be from two to five thousand words; but adequate treatment of the subject will be required.

(f) It should be typewritten on firm paper, $8\frac{1}{2}$ x 11 inches in size with a margin of $1\frac{1}{2}$ inches on the left-hand side of the page. After approval the thesis will remain in the possession of the University Library.

(g) A good, though not necessarily a literary, form will be required.

(h) While no extended original investigation is expected in a Master's Thesis, such conclusions as are reached must be so supported as to be regarded as proven.

(i) The Thesis, in its completed form, must be in the hands of the Secretary of the Faculty on or before May 1st preceding the commencement at which the degree is sought.

Degree of Doctor.

1. The candidate must hold an approved Bachelor's degree of at least three years' standing.

2. He shall ordinarily spend three years or its equivalent in resident graduate study, of which at least one year shall have been at this University. Such work shall be taken as may be prescribed by the committee of the group in which the department of his Major subject lies, subject to Faculty rules, and shall be divided between the candidate's principal subject, to be known as his Major, and related subjects to be known as Minors.

3. In addition to the examinations given at the close of each course, the candidate must show, by an extended written examination, thorough mastery of a special field of knowledge—to be defined by the professors of the department in which the field lies; and by an oral examination, such knowledge both of the general field of the department and of related subjects as may be outlined by the Graduate Faculty. This oral examination shall be conducted by a commission of the Graduate Faculty, including the professors in the department concerned and in related departments. In no case shall the commission consist of less than five members. The findings of the commission shall be reported to the Faculty for action.

4. He must have attended a seminar conducted by the department exclusively for candidates for the Doctorate, the scope and method of the seminar and the requirements for admission to it to be such as each department may determine. Upon completion of the seminar, he must secure the recommendation of the instructor in charge of the seminar for the final examination. No candidate shall be recommended who has not satisfied the instructor that his knowledge of at least two foreign languages is such as give to him command of the foreign publications which may be in the judgment of the department, requisite for mastery of his special field.

5. He must show ability for independent investigation and scholarly technique by a thesis. This thesis, known as the "Thesis for the Doctorate," is required of all candidates for the Doctor's degree. Great weight is attached to this requirement. It is expected that the preparation of an acceptable thesis will usually require the greater part of an academic year. The thesis must conform to the following rules:

(a) On or before November 15th of the college year in which the degree is sought, the subject of the thesis, together with a preliminary typewritten outline showing the proposed scope and method of treatment, must be filed with the Secretary of the School. In case the student is a candidate for the conferment of the degree at some other time than Commencement, this condition may be met by filing the subject and

outline at least six months before the student purposes to appear for his final examination.

(b) The subject and outline must be approved by the instructor in charge of the seminar of the department in which the student is a candidate, and by such other members of the Faculty as the Dean may appoint a committee for the purpose. Ordinarily, the outline is to be examined by two members of the Faculty, and in case of disagreement a third member shall be added.

(c) The thesis must show ability to handle the tools of scholarship, and the application of approved methods of investigation. It must give evidence of exhaustive study of a narrow field, and be an authoritative statement of knowledge secured at first hand. The thesis should either add to the knowledge of the special subject, or collect and present existing knowledge in more comprehensive and orderly form.

(d) Ordinarily, the number of words in the thesis should be not less than 5,000 nor more than 30,000, but the treatment should be as concise as the nature of the subject permits. Every thesis should contain a clear introductory statement of what it is proposed to establish or investigate, and likewise a final summary of results.

(e) The thesis must have a title page, bearing the subject, the author's name, and the statement: "Submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy (or Science) at New York University." The thesis must include an analytical table of contents and a bibliography of the subject.

(f) The thesis must be presented in typewriting on firm paper $8\frac{1}{2} \times 11$ inches in size, with a margin of $1\frac{1}{2}$ inches on the left-hand side of the page. The pages must be fastened securely together, and must have a cover bearing the writer's name.

(g) The thesis must be filed with the Secretary of the Graduate School on or before April 15th, or at least one month before the candidate's final examination. With the thesis shall be filed a formal application for permission to take the final written and oral examinations for the degree. The application shall state the candidate's department and group, and shall bear the written approval of the instructor in charge of the seminar of that department in which the thesis lies.

(h) The thesis must be read by a committee of the Faculty, the members of which committee shall report severally, in writing, upon its acceptance or rejection. The committee's report of the thesis shall be submitted to the proper Group Committee and the decision shall be final only when confirmed by the Faculty, in connection with the report of the commission appointed to pass upon the candidate's final examination.

(2) A thesis having been finally approved by the Faculty must be printed in a form acceptable to the University, and fifty copies deposited with the Librarian of the University. The published thesis shall bear the following certificate: "This thesis has been accepted by the Graduate School of New York University, in partial fulfillment of the requirements for the degree of Doctor of Philosophy (or Science)." As a guarantee of the publication of the thesis, a deposit of \$100 shall be made with the University Bursar. This sum shall be refunded when the required fifty copies have been deposited with the Librarian, or, in case the thesis has not been printed within one year from the date of its acceptance, the deposit shall be forfeited and applied to the fund for the publication of Graduate theses. In case a student is unable to make the deposit, the conferment of the degree may be postponed for one year, to permit the fulfillment of the requirements for the printing of the thesis.

[The above requirements for the Degree of Doctor apply to all students matriculated subsequent to April 1, 1912. Other students will be governed by the regulations in force at the time of their matriculation provided they have maintained continuous enrollment.]

Fees and Expenses

Matriculation Fee (paid once only)	\$5.00
Fee for Instruction:	
Each full course, per year	25.00
Each half course, per year	15.00
Fee for Diploma, Master's or Doctor's Degree	20.00
Laboratory Fee, Chemistry, per year	20.00
Laboratory Fee, Medical Science Courses, each course	10.00

The enrollment fee required of candidates for degrees employed in the completion of a thesis is \$5.00 per year.

No application for matriculation will be considered until the matriculation fee has been paid. The fee will be returned in case the application is rejected. The laboratory fee in Chemistry must be paid at the laboratory upon entrance upon the course.

A student who is a candidate for the Doctor's degree must have paid to the Graduate School fees for instruction amounting to at least \$200, except in the case of students who hold an approved Master's degree at the time of matriculation, in which case the minimum fee is \$100. In all other cases the minimum fee will be required,

irrespective of any credit allowed for Graduate work in other institutions. When a student of the Graduate School pursues courses in other Schools of the University, the fees paid for such courses will not be credited toward the minimum fee for instruction in the Graduate School, unless the courses are announced in the *Graduate School Bulletin*.

Fees for instruction are due upon entrance upon the course, and must be paid not later than October 15th, to the Bursar at Washington Square. When the fee amounts to more than \$25, it may be paid in two installments, half October 15th and half February 15th. Failure to pay fees promptly will debar from classes.

Special Privileges to Students of Certain Theological Seminaries

Exemption from the fees for instruction and examination in the Graduate School is granted to undergraduate students of the following theological seminaries: Union Seminary, General Theological Seminary, Princeton Seminary, Drew Seminary, New Brunswick Seminary, St. Joseph's Seminary and the Jewish Seminary of America.

FELLOWSHIPS AND SCHOLARSHIPS

A. Ogden Butler Fellowships

Two Fellowships, founded by Mr. Charles Butler, are offered each year to students completing the course in Arts, as incentives to Graduate Study; namely,

The A. Ogden Butler Classical Fellowship, endowed with \$6000.

The A. Ogden Butler Philosophical Fellowship, endowed with \$6000.

These Fellowships are equal in rank, and will be bestowed by the Faculty of the College of Arts and Pure Science upon two members of the graduating class, standing as to scholarship in the uppermost third of the class. A student in order to receive the award of a Fellowship must have made such attainments in scholarship as, in the judgment of the Faculty, will justify him in pursuing advanced studies in the Liberal Arts. Further, the student must have enrolled himself as a candidate for the degree of Master from the University

under such rules as may be prescribed. The work of the Fellow shall include research in the line of study for the encouragement of which the Fellowship is founded and shall also include teaching duties such as the Chancellor may appoint.

In case in any year the Fellowship be not awarded or the income of an awarded Fellowship become not payable because its incumbent has not met the conditions named, then the income of such Fellowship shall be devoted to the fund for Graduate Scholarships.

William H. Inman Fellowship
Founded by Miss Inman

The principal of this fund, amounting to \$5000, is held by the University, the income arising from the same to be used for the support of the William H. Inman Fellowship. This fellowship is to be awarded to a student completing an undergraduate course whose scholarship places him in the foremost third of his class, and whose attainments are such, in the judgment of the Faculty, as will qualify him to pursue advanced studies in Science. Further, the student must have enrolled himself as a candidate for the degree of Master from the University, under the rules prescribed. Further, he must serve for one year as a Demonstrator or Assistant in the Laboratory of Analytical Chemistry. But the last-named condition may, for sufficient reasons, be suspended by action of the Faculty.

The tenure of the Fellowship is for one year, and it is to be known upon the records of the University and announced in each annual catalogue as the William H. Inman Fellowship.

Fellowships in Education

Students of the School of Pedagogy pursuing courses in education in the Graduate School may become candidates for Fellowships in the School of Pedagogy as announced in the bulletin of that School.

The Ottendorfer Memorial Fellowship

The Ottendorfer Memorial Fellowship for Germanic Philology, with an annual income of \$800, with a maximum allowance of \$100 for books, was established in New York University in 1901, by the friends and admirers of the late Hon. Oswald Ottendorfer, LL.D.

The following announcement for 1913-4 is made respecting this foundation.

Candidates must present satisfactory evidence of the following minimum qualifications:

- (a) Bachelor's degree from an American college recognized by the New York Board of Regents;
- (b) Ability to read easily English, German, French and Latin;
- (c) Ability to speak and write English and German;
- (d) An elementary knowledge of two of the older Germanic dialects;
- (e) A knowledge of the history of German literature;
- (f) Such ability as to warrant the belief that the candidate, if appointed, will be able to make original investigations in Germanic language and literature;
- (g) Age, as not more than twenty-five years.

The duties of the Ottendorfer Memorial Fellow for 1913-1914 will be:

- (a) To report for duty, October 1, 1913;
- (b) To devote his time to the study of Germanic language and literature under the direction of the Committee, wherever (at least six months in Germany) it may direct;
- (c) To publish, under the direction of the Committee and under the name of the Fellowship, the results of his investigations.

One reappointment may be made, but only for superior attainments. Appointment will be made about April 15, 1913.

The appointee for 1912-13 is Leo L. Rockwell.

Publications issued in accordance with the provisions of this foundation are (1) Schiller's *Einfluss auf die Jugenddramen Hebbels. Die Jungfrau von Orleans und Hebbels Judith; eine Studie über das Drama von Ernst Otto Eckelmann.* 1906. 106 S. 8. (2) *Zur Liederpoesie in Fischarts Gargantua von Charles Allyn Williams*, 71 S. Halle a. S. Max Niemeyer, 1909. (3) Tieck's Essay on the Boydell Shakespere Gallery by George H. Danton. 47 pp. 1912.

The Committee on the Fellowship consists of Hon. Charles F. MacLean, Adolph Kuttroff, Esq., and August Zinsser, Esq.

Candidates may apply for further particulars and for application blanks to LAWRENCE A. McLOUTH, Professor of Germanic Languages and Literatures, University Heights, New York City.

Graduate Scholarships

REMSEN GRADUATE SCHOLARSHIP.—This scholarship was founded April, 1896, by R. G. Remsen, Jr., '73.

RICHARD H. BILL GRADUATE SCHOLARSHIP.—This scholarship was founded June 1, 1887, by Richard H. Bull, Ph.D., who filled the chair of Engineering from 1853 to 1884.

ELLINWOOD SCHOLARSHIP IN COMPARATIVE RELIGION.—This scholarship, founded 1904, provides tuition in the courses in Comparative Religion.

CLASS OF '90 SCHOLARSHIP.—This scholarship founded 1905 provides tuition in two courses.

FACULTY GRADUATE SCHOLARSHIPS covering tuition are in the gift of the Faculty, to be bestowed upon graduate students who may be found entitled to them by their scholarship. They are intended to provide for the fees for courses in the Graduate School. To obtain one of these scholarships, a student must have enrolled himself and paid his fees for the year by November 1. He must, by November 30, have presented to the Dean a statement including the following items: (1) The college at which his Bachelor's degree has been received, specifying the particular degree and the year of its reception. (2) The number of members in his class at graduation. (3) His own relative position in the class by giving his number on the roll arranged according to scholarship. (4) The branch of study in which he made his best record. (5) Certification of above by some officer of the college named.

The Faculty will select the student or students standing highest as judged *by the record* obtained as above named, and further, *by such original work and special testimonials of work* as may be offered by the candidate to the Faculty and accepted.

GRADUATE SCHOLARSHIPS FOR ALUMNI OF CERTAIN COLLEGES IN OHIO.—The following scholarships provide tuition, each to the amount of not over \$100 a year, in the University Graduate School for such graduate of the college named as its President may recommend to the Chancellor of the University:

WILLIAM L. STRONG SCHOLARSHIP, for graduates of Kenyon College, Gambier, Ohio.

A. D. JULLIARD SCHOLARSHIP, for graduates of Wooster University, Wooster, Ohio.

CHARLES T. BARNEY SCHOLARSHIP, for graduates of Western Reserve University, Cleveland, Ohio.

S. LOEB SCHOLARSHIP, for graduates of University of Cincinnati.

HENRY M. MACCRACKEN SCHOLARSHIP, for graduates of Wittenberg College, Springfield, Ohio.

Location and Buildings

Courses in the University Graduate School, except laboratory courses in Science, are given at the University Building, Washington Square East. Certain class rooms on the eighth, ninth, tenth and eleventh floors are set apart for the use of this school, and the library and reading-rooms of the University Law School, the School of Pedagogy, and the School of Commerce, are open also to students of the Graduate School on equal terms. The social room of the School of Pedagogy is open also to women students of the Graduate School.

The building is very centrally located, and can be easily reached from Brooklyn and New Jersey. The street railway on Eighth Street, running to Brooklyn and connecting by transfer with all north and south bound lines, is within a short block of the entrance to the University elevators on Waverley Place. The Eighth and Bleecker Street stations of the Sixth Avenue Elevated Road, the Ninth Street Stations of the Third Avenue Road and Hudson Tunnel, and the Astor Place Station of the Subway are within five minutes' walk.

The class rooms, being on the two upper floors of the building, are above the noise and dust of the city, and the wide expanse of Washington Square assures abundant air and light.

Certain courses in Science, requiring the use of laboratory, are given at University Heights, the magnificent site of the University College and School of Applied Science, while courses in the Medical Sciences are given in the Laboratories of the University and Bellevue Hospital Medical College at First Avenue and Twenty-sixth Street.

Library and Laboratory Facilities

THE GENERAL LIBRARY of the University occupies the great Memorial Library Building at University Heights. Its reading-room is surpassed by few, if any, rooms of similar character in the world. The books are arranged according to departments. Eighteen departments have each their own Seminar Rooms, in or near which are placed the working libraries of those departments. Graduate students enjoy the privileges of these private rooms, and may also take certain books from the library for home study, under the regulations which will be found in the general catalogue. The library is catalogued according to the Dewey decimal system. It includes the following notable collections:

The Lagarde Library of Semitic Languages.—This collection was purchased by the University in 1896 from the estate of the late distinguished orientalist, Professor Paul de Lagarde of Göttingen. It is rich in all branches of Oriental investigation. This department possesses also a good collection of ancient Babylonian inscriptions, which will give students of Assyrian an opportunity to practise reading from the original clay.

The Ottendorfer Germanic Library.—This collection, the gift of the late Hon. Oswald Ottendorfer, LL.D., of New York, is one of the two or three most complete collections of its kind in the world. It numbers over twelve thousand volumes. It contains one hundred and thirty complete sets of literary journals.

The Hübner Classical Collection.—The New York University in 1902 purchased the entire professional library of the late Dr. Emil Hübner, professor of classical philology in the University of Berlin (February, 1901). This collection, which was made during the fifty years from 1851–1901, presents a thoroughly efficient apparatus for the pursuit of graduate study in all branches of classics. It is well balanced in all these, but is particularly strong in all publications dealing with the Inscriptions of the Roman Empire, pre-eminently so in the Epigraphy of the Spanish Peninsula and of Britain, which Hübner himself edited in Mommsen's *Corpus Inscriptionum Latinarum*. The collections of Latin Literature and Latin Grammar are of similar excellence: they contain the material on which Hübner's noted Bibliographical Outlines were based. The

Archæological Collection, too, is noteworthy—some 3000 monographs are a part of the collection. A Livy of 1482 and a Vergil of 1502 illustrate the Classicism of the Renaissance.

THE LIBRARY OF THE SCHOOL OF PEDAGOGY, at Washington Square, is a very complete working library of eight thousand volumes, dealing exclusively with philosophical and pedagogical subjects.

THE LIBRARY OF THE SCHOOL OF COMMERCE, at Washington Square, contains over four thousand volumes, dealing exclusively with economic and commercial subjects.

THE NEW YORK PUBLIC LIBRARY makes special provision for meeting the wants of advanced students, and its extensive collections will be found easily available by Graduate Students, both at the reading room, 42d Street and Fifth Avenue, and through the circulation department for home use.

THE HAVEMEYER CHEMICAL LABORATORY, provided by the liberality of Mr. William F. Havemeyer, in memory of his father and brother, is a building three stories in height and occupies an area of sixty by seventy feet. The lowest story contains workshops and store-rooms as well as an even temperature room for gas analysis and an Assay Laboratory. The next floor contains a spacious lecture room, with all appliances for experimentation in pure and applied chemistry; a laboratory for advanced work in chemical research, a reading room with the Solomon Loeb chemical library and the private laboratory of the Professor of Chemistry. The top floor contains the private laboratory of the instructors in Chemistry, and large laboratories for qualitative and quantitative analysis, together with a balance room, a room for work with noxious gases, and a library. All the laboratories are provided with the usual appliances, as well as with lines conveying steam, compressed air, and suction, to the various desks and oxygen and other gases to appropriate working tables. The ventilation throughout is by forced draft.

CHARLES BUTLER HALL, the Laboratory of Physics, and the other laboratories of the School of Applied Science are also well equipped and their facilities are placed at the command of students in this department of the Graduate School, so far as the subjects demand.

THE LABORATORY OF THE DEPARTMENT OF GEOLOGY AND THE GEOLOGICAL MUSEUM are located in the Museum of the Hall of Fame at University Heights. The collection numbers about 30,000 specimens and the laboratory is equipped with machinery for cutting and polishing rocks and fossils.

THE LABORATORY OF THE DEPARTMENT OF EXPERIMENTAL PSYCHOLOGY is located on the Ninth Floor of the University Building at Washington Square, and is fully equipped with the necessary apparatus, models, etc.

THE LABORATORIES OF THE DEPARTMENTS OF ANATOMY, BACTERIOLOGY, PATHOLOGY AND PHYSIOLOGY, at the University Medical College are situated in the new building erected in 1904 and 1911, and are fully equipped with most the recent apparatus and supplied with abundant material.

Teachers' Bureau

The University maintains a Teachers' Bureau for the benefit of those students who are teachers or who are preparing to enter the profession. The service of the Bureau is rendered free of charge to all students of the Graduate School. The Bureau, while making no promise in regard to placing students as teachers, will do its best to find them advantageous teaching positions for which, according to its judgment, they are prepared. Application blanks may be secured from the University Registrar.

The Bureau will welcome notices of any vacancies in teaching positions that may come to the attention of University students.

University Philosophical Society

This Society was organized in 1910 by students of the Graduate School for the study of philosophic problems. Meetings are held alternate Tuesdays throughout the school year. Membership is open to all students of the University interested in philosophy. The annual dues are one dollar. The Society undertakes to publish each year the best thesis submitted in the Philosophy of Life course. The thesis published in 1913 was by Silvie de G. Coster, on "The Development of the Spiritual Life as an Aim in Education."

The Charles F. Deems Lectureship

The University accepted, April 15, 1895, from the American Institute of Christian Philosophy, an endowment of fifteen thousand dollars for the support of a lectureship to be called the Charles F. Deems Lectureship of Philosophy, under the following rules:

The University agrees to maintain said lectureship by securing for each year, or each alternate year, a lecturer, eminent in science and philosophy, who shall treat in not less than six lectures some one of the most important questions of science and philosophy, with a special reference to its relation to the revealed truths of the Holy Scriptures and to the fundamental principles of theistic philosophy.

The lecturer shall be chosen by the University's Committee upon the Charles F. Deems Lectureship, which shall consist of the Chancellor and two members of the Faculty of Arts and Science and two members of the University Council, to be named as the Council may direct. The subject for each year's lectures shall be agreed upon between this Committee and the lecturer.

The University shall provide, free of charge, a room for the lectures, and shall, at its own expense, make due public announcement of the time and place of each lecture. The University shall also publish, in book form, each series of lectures, and put the same on sale with one or more reputable book firms, provided this can be done without further expense than can be met by the accumulation of income over and above the expense of maintaining the annual or biennial series of lectures.

The University's Committee at present is constituted as follows: Chancellor Brown, Dean Hering, Rev. Dr. George Alexander, and Dr. Henry M. MacCracken, President of the Institute of Christian Philosophy, *ex officio*.

The sixth course upon this foundation was given in February, 1913 by Rudolf Eucken, Ph.D., D.D., LL.D., of the University of Jena on "The Fundamental Principles of Ethics with Especial Consideration of the Religious Problem."

COURSES OF INSTRUCTION

Graduate Courses of Instruction are announced below, with the understanding that the instruction in each branch is subject to the conditions hereinafter specified.

1. The courses are offered subject to such arrangement of matters of detail as may be made between the student and the professor or instructor by correspondence or by personal interview.

2. In certain subjects the courses are offered under the condition that not less than five persons enroll for the course selected.

3. For certain courses acquaintance with the German and French languages is essential.

4. Courses inclosed in brackets will not be given in 1913-1914.

5. Courses marked (*) are open to those College Seniors and to students of the Collegiate Division who have permission to take graduate work.

6. Full courses demand attendance each for at least two hours weekly upon the lectures or seminary instruction of professors. Half courses may demand attendance for one hour a week for the whole year or, in certain subjects, two hours weekly for half a year. But in certain laboratory courses a half course may require two hours throughout the year. All courses designated in this schedule as requiring two hours weekly are full courses, unless otherwise indicated. In the requirements for degrees two half courses are considered to be the equivalent of one full course.

7. When not specified, the hours of the lectures will be fixed by special arrangement to suit the convenience of instructor and students.

GROUP I. ANCIENT LANGUAGES

Chairman of Group Committee: PROF. ERNEST G. SIHLER, PH.D.

Secretary of Group Committee: PROF. WILLIAM E. WATERS, PH.D.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

A. If Greek be the major subject, the candidate will be required in both oral and written examinations to show his attainments in the following:

(I) The History of Greek Literature of the classical period;

(II) Greek Dialectic forms and usage as they occur in classical Greek: viz., Herodotus, Melic poets, and the dramatists;

(III) Attic Syntax of cases, moods and tenses;

(IV) Sight-reading in classical Greek literature;

(V) The fundamental principles and types of Versification.

B. If Latin be the major subject, the candidate will be required in both oral and written examinations to show his attainments in the following:

(I) The History of Roman Literature from Livius Andronicus to Gellius;

(II) The reading of Latin prose literature at sight to show the candidate's appreciation by his phrasing and emphasis; and of poetry, with the power of scanning the more current forms of lyric verse;

(III) A ready facility in writing Latin prose without flaw;

Some knowledge of Greek Literature is very desirable, in order that the candidate may understand the unity of connection between all forms of Latin Literature and the Greek Standard types.

C. If Semitics be the major subject, the candidate will be required in both oral and written examinations to show his attainments in the following:

(I) HEBREW. Thorough familiarity with text of Old Testament.

(II) ARAMAIC. Targums. Ability to read Aramaic Inscriptions.

(III) RABBINIC. Lighter Mishna and Talmud treatises.

(IV) ARABIC. Some Suras of Koran. Selected poems and histories.

(V) SYRIAC. Peshito. Selected texts.

(VI) Fair knowledge of Semetic Archæology. Comparative Semetic Grammar, familiarity with the history of the Versions (to read with ease the Greek Septuagint very desirable), and acquaintance with the principles of Biblical criticism.

(VII) Some knowledge of Oriental history and literature, including that of the Jews in Early and Middle Ages, of the Caliphate, and of the Babylonians and Assyrians must be insisted upon.

DEPARTMENT OF GREEK

Consultation hours: Professor Waters, Saturdays in October 10-12 A. M., University Building, Washington Square. On other days, by appointment.

I. THE GREEK DRAMA. Origin, development and influence of the classic drama; study of the structure, action and production of Greek plays; critical study of fifteen selected plays in original and translation. Haigh's *Tragic Drama of the Greek*; *Attic Theatre*. Full course. Two hours. Wednesday, 4-6. Professor Waters.

*II. HOMER. His dialect and vocabulary. Homer the poet, and the object of study and literary criticism. His place in literature and in archæology. A course primarily for teachers of Greek. Leaf, *Companion to the Iliad*; Seymour, *Life in the Homeric Age*. Iliad, books I-VI; Odyssey, books I-VIII. Full course. Two hours. Friday, 4-6. Professor Waters.

III. GREEK HISTORY. *Herodotus*; from Cyrus to Darius. Rise and early uses of prose-writing. *Thucydides*; study of books II and VI. Greek historiography. Bury's *Greek Historians*. Inscriptional evidences will be studied 1913-14. Full course. Hours to be arranged. Professor Waters.

IV. THE GREEK ORATORS. With pedagogical study in the teaching of the rendering of Attic prose Greek into English. Constitutional antiq-

uities. Greek prose composition. Antiphon, *Murder of Herodes*; Andocides, *De Mysteriis*; Pericles' Funeral Oration; Isæus, one will-case, will be studied. Jebb's *Attic Orators*. Full course. Thursday, 4-6.

Professor Waters.

*V. ATTIC PROSE. Xenophon, as exponent of formal Greek grammar; his diction and word formation; sentence structure. Xenophon as historian and essayist. *Anabasis*, books I, II, IV; *Hellenica*, books I and II. This course is adapted to meet the desires of teachers of Greek. Prose Composition. Full course. Hours to be arranged on consultation. Saturdays, hours to be arranged.

Professor Waters.

Upon ample notice, Courses IV and V may be re-arranged, or an additional language course may be added.

*GREEK VI. (a) PHILOSOPHY. Religion and philosophy of the Greeks. A study based on evidences in Greek Literature and archæological discoveries. Religious teachers. Deities, temples, temple-service and property; cults. The works of Fernald, Jane Harrison and James Adam will be consulted. Ritter and Preller, *History of Greek Philosophy*. 1 hour. Saturday, 11.15-12.15.

Professor Waters.

*GREEK VI. (b) ART. Study of architecture, sculpture, painting; the temple and public buildings; coins, gems, vases. Selected passages from Greek and Latin writers. Archæological researches in Greece and Italy to-day. 1 hour. Saturday, 12.15-1.15.

Professor Waters.

*GREEK VII. (a) LITERATURE. The general range from Homer through the period of Alexandrine criticism. Epic, dramatic and lyric poetry. History, oratory and philosophy. In 1912-13 poetry was the principal study, the dramatists and Theocritus being the writers studied. 1 hour. Saturday, 9.15-10.15.

Professor Waters.

*GREEK VII. (b) HISTORY. The history of Greece through to the Roman Conquest. Greek politics and statecraft. Selected passages of Herodotus, Thucydides, Xenophon; Aristotle's *Politics*, Plato's *Republic*, III-V; Bury's *History of Greece* and *Greek Historians*. 1 hour. Saturday, 10.15-11.15.

Professor Waters.

DEPARTMENT OF LATIN

Consultation hours: Professor Sihler, last Saturday in September and first Saturday in October, 10-12 A. M., University Building, Washington Square; Monday and Saturday evenings at residence; all day Mondays at University Heights. Students are invited to use Huebner collection freely.

SEMINAR REQUIREMENTS FOR PH.D. IN LATIN. 1. Survey of History of Literature by systematic work with use of Fischer and Fynes Clinton. Reports on the leading editions of Latin Classics and all the leading manuals. Sandy's *Companion to Latin Study*. 2. (alternative) History of Latin Language. Grammar, synonyms, metre, lexicography, Keil's *Grammatici*, advanced composition, exercises in Latin discourses.

As to Modern Languages: Reading knowledge of German necessary.

Written and oral examination dealing with one of these two provinces, as well as with the related subjects bearing on the dissertation for the Doctorate. Sight-reading in which the candidate may indicate his preference as between poetry and prose literature.

XVII. SEMINAR IN CAESAR. The ancient sources of Caesar's Biography' as gathered in Professor Sihler's *Annals of Caesar*, viz., Caesar, Cicero, Sallust, Livy (Florus, Orosius), Velleius, Suetonius, Plutarch, Appian, Cassius Dio, and Nikolaos of Damascus.

In the second hour there will be readings, particularly from the Civil War, *Bellum Alexandrinum*, *Bellum Africum*, *Bellum Hispaniense*.

Practice in *Oral Method* in connection with the teaching of Caesar. Each student will have at his disposal a copy of E. G. Sihler's *Concordance of Caesar's Gallic War*. Kuebler's edition of Caesar and the supplementary writers (Teubner) should be procured by students enrolling for this course. (Course required for High School teachers who are candidates for A.M. or Ph.D.) Two hours. Saturday, 9.15-11.15. Professor Sihler.

(First session, October 4th.)

XIV. LIFE, LETTERS AND PHILOSOPHY OF Q. HORATIUS FLACCUS OF TIBUR. The metrical models of Horace in Greek Literature (Alkaïos, Sappho, Archilochos, etc.) will be presented.

Commentary of Porphyrio. Lectures on Stoic and Epicurean Schools. Lucian Mueller's text and that of the new Oxford Series will be compared. Franke's *Fasti*.

Exercises in speaking Latin, in summarizing or reviewing.

Two hours. Saturday, 11.15-1.15.

Professor Sihler.

(First session, October 4th.)

IA. SEMINAR COURSE AT UNIVERSITY HEIGHTS. 3-5 or 4-6 P. M., day to be agreed upon (not Saturdays).

1. Orientation course of the chief branches of Latin Studies, Sandys' Manual. Epigraphy.

2. Review of History of Roman Literature, following Fischer's *Zeittafeln* and Fynes Clinton.

Course required for candidates for the Doctorate. These are requested to confer with Professor Sihler before the beginning of the winter term (i.e., about October 6th).

DEPARTMENT OF SEMITIC LANGUAGES

Consultation hours: Professor Isaacs, Washington Square. Last two Wednesdays in September, 3-4 P.M.

Hebrew

*I. SELECTIONS FROM THE HISTORICAL BOOKS. with thorough grammar. Easy narrative reading and translation into Hebrew. One hour.

II. THE MINOR PROPHETS, with lectures on the history of the Hebrew language. Two hours. Tuesday, 1-3 P.M. Professor Isaacs.

III. HEBREW LITERATURE. Spanish Period. One hour. Hours to be arranged. Professor Isaacs.

Aramaic

[II. TARGUM ONKELOS, with lectures on origin and character of the Targumin. One hour.] Professor Isaacs.

III. SEMITIC ARCHAEOLOGY. The chief Aramaic Inscriptions. One hour. Tuesday, 11-12 A.M. Professor Isaacs.

Rabbinic

I. THE MISHNA. "Pirke Aboth," "Aboda Zara," Strack's edition. One hour. Tuesday, 3-4 P.M. Professor Isaacs.

II. INTRODUCTION TO RABBINICAL LITERATURE. One hour. Hours to be arranged. Professor Isaacs.

Syriac

I. NESTLE'S SYRIAC GRAMMAR, with Chrestomathy. Lectures on the Syriac authors. A beginner's course. Hours to be arranged.

Professor Isaacs

GROUP II MODERN LANGUAGES

Chairman of Group Committee: DEAN FRANCIS H. STODDARD, PH.D.

Secretary of Group Committee: PROF. LAWRENCE A. McLOUTH, M.A.

In addition to the general requirements prescribed by the Faculty, and published on page (13) of this bulletin, the Group of Modern Languages presents the following special requirements for the Doctorate:

1. Candidates under this group must in addition to English possess a satisfactory knowledge of the French, German, and such other languages as may be necessary for the prosecution of their studies. This knowledge will be tested by examination as soon after the candidate's matriculation as possible, but in no case later than the date of the preliminary examination specified in Rule 2.

2. A brief preliminary examination in the major subject and the branches related to it must be passed at least seven months before the Commencement at which the degree is to be conferred. This examination may be oral or written at the discretion of the department of the major subject.

3. If the major subject is selected in literature, the candidate must possess (a) a good general knowledge of the history of the language in which the major subject lies; and (b) in addition to intimate knowledge of the literature of the special field of his research, a good general knowledge of the whole literature of the language in which the special research is undertaken.

4. If the major subject is selected in philology, the candidate must possess a good general knowledge of the literature of the language of the major subject.

5. In addition to courses taken in the department of the major subject, the candidate must take at least two courses outside the department of his major subject, preferably within the departments of the group.

6. The election of courses by candidates within this group must be approved by the department of the major subject.

DEPARTMENT OF ENGLISH

Consultation hours: Professor Stoddard, Saturday, September 27, and Saturdays in October, 10-12 A.M. Professor Bouton, Tuesdays in October, 3-4 P.M.; Saturdays, 9-11 A.M.; Mr. Nason, the first and second Saturdays of the term, 9.15-11.15 A.M. University Building, Washington Square.

English Literature

I. ENGLISH POETRY. This course will have for its main object a study of the development of poetry in modern English Literature. It will include a study of the more important poetic forms as found in the works of the greater modern poets. Full course, two hours. Monday, 4-6.

Professor Stoddard.

*II. MODERN DRAMA. A study of dramatic art as illustrated in selected masterpieces of the Elizabethan and Modern periods, with special studies in the plays of Shakespeare, Sheridan, Goldsmith, Ibsen, Wagner, and certain of the dramatists of the present day. Full course, two hours. Saturday, 9.15-11.15.

Professor Stoddard.

[III. COMPARATIVE LITERATURE. The aim of this course is to study the intellectual activity of a single period, and especially to investigate the relations of the English literature of the era chosen to the contemporary intellectual life of Europe. Half course, one hour.] Professor Stoddard.

Course III will probably not be given in 1913-14.

IV. DEVELOPMENT OF FICTION. A study of the history and characteristics of English Fiction, together with the reading of many of the best examples of fiction from 1740 to the present day. Full course, two hours. Saturday, 11.15-1.15.

Professor Stoddard.

*V. THE EVOLUTION OF THE ESSAY. A study of the history, nature and later development of the English Essay in the Seventeenth and Eighteenth Centuries. Full course, two hours. Tuesday, 4-6. Professor Stoddard.

VI. ENGLISH LITERARY PROSE FROM THE INTRODUCTION OF PRINTING TO THE RISE OF THE PERIODICALS.

Introductory: The prose of the humanists, the Euphuists, and the Biblical translators of the sixteenth century, and the strife for literary standards.

The Seventeenth Century: Literary prose from Bacon and Hooker to the Queen Anne writers, as seen especially in the rise and progress of the essay. The rhythms of English prose in the seventeenth century. The beginnings of journalism and the establishment of its relation to literature. Two hours. Saturday, 11.15-1.15. Professor Bouton.

[VII. MODERN ENGLISH PROSE. Representative writers in English prose, of the eighteenth and nineteenth centuries. The influence of personality, theme, and social function on the character of modern prose. Two hours.] Professor Bouton.

[VIII. ENGLISH LITERARY CRITICISM. A study of the critical appreciation of English literature. The literature of critical writing in English. The evolution of methods of criticism as applied especially to poetry. Two hours.] Professor Bouton.

IX. THESIS-WRITING AND RESEARCH.

The aim of this course is to combine training in expository composition with elementary practice in research. The course will consist of lectures on the theory of exposition and on the principles of research as applied to the history of literature; a study of manuals, *e. g.*, Langlois and Seignobos's *Introduction to the Study of History*; and, by each student, the preparation of a series of written reports of his researches within a limited field of investigation. This field will be for 1913-14, Doctor Johnson and his circle; for 1914-15, minor romanticists of the mid-eighteenth century. The course will be of especial value to students who are about to prepare theses for the degree of master of arts. Two hours a week. Saturday, 9.15-11.15.

Assistant Professor Nason.

*X. STUDIES IN 18TH CENTURY LITERATURE (1) THE NEO-CLASSICAL WRITERS. Lectures upon the rise and decline of the neo-classical school, illustrated with extensive study of the works of Dryden, Pope, Swift, Addison, Johnson, Goldsmith, and others. The course is intended to correlate with the course on thesis-writing for the same year. Full course, two hours. Saturday, 2-4. To be given in 1913-14; not to be given in 1914-15.

Mr. Nason.

[*XI. STUDIES IN 18TH CENTURY LITERATURE (2) THE REACTION FROM THE NEO-CLASSICAL WRITERS. To be given in 1914-15; not to be given in 1913-14.] Mr. Nason.

English Philology

I. ANGLO-SAXON PROSE. Study of the history and development of the Old English dialects. Critical examination of selected examples of old English prose. Full course, two hours. Hours to be arranged.

Professor Stoddard.

II. ANGLO-SAXON. Advanced course. Study of Old English poetry with especial reference to the phonology and prosody. Full course, two hours. Hours to be arranged.

Professor Stoddard.

[III. ENGLISH PHILOLOGY. Advanced course. The dialects and the literature of the Middle English period. Full course, two hours.]

Professor Stoddard.

DEPARTMENT OF GERMANIC LANGUAGES AND
LITERATURES

Consultation hours: Professor McLouth, every week day, except Friday and Saturday, 4-5 P.M., Saturday, 9.15 A.M.-1 P.M., at Washington Square; Associate Professor Wilkens, Thursdays, 4.15-6.15, P.M., Saturdays, 11.15 A.M.-1.15 P.M., at Washington Square; or both at any time by letter at University Heights.

German Literature

I. GERMAN SEMINAR. The following alternatives are offered:

(a) *Second Romantic School*. Select topics calling for special investigation.

(b) *Herder and Goethe*. A close investigation of the influence of Herder on the young Goethe.

Two hours. Saturday, 11.15-1.15.

Associate Professor Wilkens.

German Philology

II. INTRODUCTORY COURSE IN GOTHIC. A study of the phonology and accidence as given in Wilhelm Braun's *Gotische Grammatik*; the study of portions of Streitberg's *Urgermanische Grammatik* and Stamm-Heyne's *Ulfilas*; the reading of selections from the Gospels of Matthew, Mark and Luke, the Epistle to the Corinthians in Wulfila's translation of the Bible, and of pages i and vii of the *Skeireins*. A reading knowledge of Greek is a decided advantage but not a prerequisite. Two hours. Thursdays 4-6.

Professor McLouth.

*III. ADVANCED OLD HIGH GERMAN AND OLD SAXON. Otfrid's *Evangelienbuch*. The Old Saxon *Heliand*. Translation; sources, metrics, style, the more difficult problems of phonology, inflection and syntax. Two hours. Thursday, 4.15-6.15, or by arrangement.

Associate Professor Wilkens.

DEPARTMENT OF ROMANCE LANGUAGES

French

Consultation hours: Professor Gillett, daily until October 10, at University Heights. Dr. Delamarre, last Monday and Tuesday in September, and first Wednesday in October, 4-6 P.M., Washington Square.

*I. SOURCES AND DEVELOPMENT OF FRENCH COMEDY. Influence of Italy and Spain on writers of Comedy in France, as illustrated in the works of Corneille and Molière. Nisard: *Histoire de la littérature française*. De Julleville: *Le Théâtre en France; Les Comédiens en France*. Moland: *Molière et le Théâtre italien*. Larroumet: *La Comédie de Molière*. Two hours. Tuesday, 4-6. Dr. Delamarre.

II. STUDY OF THE BEGINNINGS AND GROWTH OF FRENCH TRAGEDY. Investigation of sources of selected plays of Corneille and Racine. Demogeot: *Littératures méridionales*. Ste. Beuve: *Portraits littéraires*. Paul Albert: *La Littérature française au XVII^e siècle*. Nisard, De Julleville, Lanson, etc. Two hours. Professor Gillett.

III. RENAISSANCE LITERATURE IN FRANCE. With especial reference to the influence of Rabelais, Montaigne, the *Satyre Ménippée*, Marot, and Ronsard. Lenient: *La Satire en France au XVI^e Siècle*. Stapfer: *Rabelais, sa personne, son génie et son œuvre*. Paul Albert: *La Littérature française au XVI^e Siècle*. Darmsteter and Hatzfeld: *Le XVI^e siècle en France*. Nisard, Demogeot, etc. Two hours. Monday, 4-6. Dr. Delamarre.

IV. THE EIGHTEENTH CENTURY IN FRANCE. Society, men and ideas. Analytical study of representative authors: Voltaire, D'Alembert, Diderot, etc. Two hours.] Dr. Delamarre.

V. HISTORY OF THE FORMATION AND DEVELOPMENT OF THE FRENCH LANGUAGE. In four parts: 1. Phonetics; 2. Morphology; 3. Syntax; 4. Semantics. One part to be given each year. Part 2, Morphology, will be given in 1913-14. Two hours, Wednesday, 4-6. Dr. Delamarre.

[VII. THE FRENCH LITERARY MOVEMENT IN THE SECOND HALF OF THE NINETEENTH CENTURY. The Comedy from Dumas to Rostand. New poetical schools; Parnassians, Neo-Romanticists, Symbolists, etc. Evolution of the Novel. G. Pellissier: *Le mouvement littéraire contemporain*. Two hours.] Dr. Delamarre.

[*VIII. HISTORY OF FRENCH LITERATURE IN THE SEVENTEENTH CENTURY. Faguet, *le dix-septième siècle*; G. Pellissier, *Le dix-septième siècle par les textes*. Two hours.] Dr. Delamarre.

[IX. MEDIEVAL FRENCH LITERATURE FROM THE ORIGINS TO THE END OF THE THIRTEENTH CENTURY. *Petit de Julleville; Histoire de la langue et de la littérature française*, Vol. I; G. Paris, *La Littérature française au moyen âge*. Two hours.] Dr. Delamarre.

[X. THE FRENCH LITERATURE IN THE FOURTEENTH AND FIFTEENTH CENTURY. *Petit de Julleville, Histoire de la littérature française*, Vol. II. Two hours.] Dr. Delamarre.

Spanish

I. SPANISH LITERATURE IN THE TIME OF CERVANTES. Study of *Don Quixote* and the Picaresque Novel: *Marcos de Obregón, Lazarillo de Tormes*, etc. Ticknor: *History of Spanish Literature*. Sismondi: *Literature of the South of Europe*. Bouterwek, Schlegel. Two hours. Professor Gillett.

II. HISTORY OF THE DRAMA IN SPAIN. Study of its rise and development in the seventeenth century. Selected plays of Lope de Vega (E. Zerolo, *Obras Escogidas*), Calderon (Maccoll's *Select Plays*), and *Juan de Alarcon*. Moratin: *Origenes dell teatro español*. Ticknor, Schack, Revilla, etc. Half course, one hour. Professor Gillett.

GROUP III. PHILOSOPHY AND RELIGION

Chairman of Group Committee: PROFESSOR ROBERT MACDOUGALL, PH.D.
Secretary of Group Committee: PROFESSOR HERMAN HARRELL HORNE, PH.D.

Each candidate for the Doctor's degree must show by a written examination, taking place not less than seven months before the granting of the degree, a satisfactory acquaintance with the general history of philosophy and with the elements of logic, psychology and ethics, and a working knowledge of at least two foreign languages.

DEPARTMENT OF PHILOSOPHY

Consultation hours: Professor MacDougall, before or after lecture hours—Professor Shaw, Friday, 4-6, and Saturday, 9-1; Professor Lough, Wednesday, 3-3.45; Saturdays, 9.15-10.15; Professor Horne, Saturday, 9.45-10.15, Monday, Tuesday, Friday, 3.30-3.45; Dr. Montgomery, Wednesday, 3-3.45; Dr. Kahn, 3.30-5, Library School of Pedagogy, all at Ninth Floor, University Building, Washington Square.

Systematic Philosophy and History of Philosophy

*XXIV. THE HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY. A course of lectures on the development of ancient speculation, with readings from the writings of the leading thinkers. In addition to an analysis of

classic philosophy in the light of antique culture, the course aims to distinguish between the spirit of Paganism and that of Christianity. Two hours. Saturday, 11.15-1.15. Professor Shaw.

XXXI. HISTORY OF MODERN PHILOSOPHY. The work of this course will include a study, first, of individual men and their contributions; and second, of the problems and general tendencies of the period. In both cases the development of philosophic thought will be considered in its relation to the history of human knowledge and ideals of life. Systematic reading will be prescribed in connection with the work. Two hours. Tuesday, 3.45-5.45. Professor MacDougall.

XXXVI. SEMINAR IN CONTEMPORARY PHILOSOPHY. An introduction to the study of recent movements and present tendencies in philosophical thought. The course will be based upon readings in Bergson and Eucken, and in the literature of Humanism, Pragmatism and Realism. Historical relations as well as philosophical significance will be taken into account. This reading will bring the student into contact with the problems of empirical truth and the moral life as well as those of epistemology and the theory of reality. In the arrangement of work the special interest of each student will be taken into consideration. Two hours. Tuesday, 7-9. Professor MacDougall.

V. GERMAN IDEALISM. The aim of this course is to trace the development of German philosophy, beginning with the critical philosophy of Kant and culminating in the absolute idealism of Hegel. Half the course will be devoted to a first-hand study of Kant. Emphasis will be laid upon the world-view which German idealism presents, and accordingly the application of speculative thought to ethics, religion, æsthetics and law will be noted. Two hours. Thursdays, 4-6. Dr. Kahn.

VII. LOGICAL THEORY. The relation to logic of the growth and structure of language will serve to introduce a review of recent discussions as to meaning and method in the conceptual world, especially as they affect teaching the rules of inductive and deductive logic, and a review of recent attempts to apply symbolism and mathematics in logical analysis. Two hours. Wednesday, 2.45-5.45. Dr. Montgomery.

*XIV. PHILOSOPHY OF ETHICS. A philosophy of life from the standpoint of ethical theory. The course presents and criticizes both hedonism and rigorism, and attempts to develop a third theory in the form of humanism. Two hours. Saturday, 9.15-11.15. Professor Shaw.

[*XVI. SYSTEMATIC PHILOSOPHY. This course is pursued with a twofold aim: to serve as an introduction to the general subject of philosophy and

to provide, for more advanced students, a systematic survey of the various forms of philosophic activity. Two hours.] Professor Shaw.

XVII. METAPHYSICS. A study of being viewed as appearance, activity and reality. This course is pursued with a twofold aim; it seeks to determine both the nature of the world and the place of the Ego therein. Two hours. Friday, 3.45-5.45. Professor Shaw.

XXXVII. PHILOSOPHICAL SEMINAR. A research course for candidates for the Doctorate in Philosophy. The course will be devoted to the history and principles of Ethics. Hours to be arranged. Professor Shaw.

Psychology

***XIX. SYSTEMATIC PSYCHOLOGY.** This course undertakes a scientific study of the functions and phenomena of consciousness. Its aim is to give the student a working conception of mind based upon the results of introspective and experimental investigations. The psychological works of James will be read with special reference to a comparison of his views with those of other leading psychologists. Two hours. Tuesday, 3.45-5.45. Professor Lough.

***XXVII. GENETIC PSYCHOLOGY.** A study of the process of mental development in the individual and the race. The work of the course consists of two parts: first, the phenomena and laws of individual mental growth; infancy, the child mind, adolescence, senescence. Second, the derivation of mental characteristics; heredity and evolution. Selected literature will be read in connection with the course. One hour. Thursday, 4.45-5.45. Professor MacDougall.

XXXIV. SOCIAL PSYCHOLOGY. Three general topics are taken up. First, the psychological self: its essential dependence upon social relationship; reflection of social consciousness in individual judgments; rivalry of social ideals in self-development. Second, the process of development in its relation to social factors: suggestion and imitation; inventiveness and dependence; reaction and opposition. Third, social groups and their characteristics: the mob-consciousness; social delusions and manias; tradition and caste: social idealizations and their relation to individual action—the family, class and state; the relation of the social self to the moral and religious consciousness.

The reading for this course will be selected in connection with each topic discussed, and upon the report of such literature the class-work will be largely based. Two hours. Saturday, 11.15-1.15. Professor MacDougall.

XX. EXPERIMENTAL PSYCHOLOGY. The problems, methods, and results of experimental psychology are presented and subjected to critical examination. Students have an opportunity of becoming acquainted with the practical phases of experimentation through laboratory work. Two hours. Wednesday, 3.45-5.45. Professor Lough.

XXI. RESEARCHES IN EXPERIMENTAL PSYCHOLOGY. This course is open to those who have completed a general course in experimental psychology. The subject taken up by each student will be selected after consultation. Two hours. Hours to be arranged. Professor Lough.

[PSYCHOLOGICAL SEMINAR. This course is intended for those having a general interest in the study of mind as well as students in the special branches of psychology. In it a systematic review is undertaken of the field of mental science and its applications. The course falls into three parts: first, a critical examination of the general conceptions and methods of psychology; second, a study of the divisions of its subject matter and the special problems with which each branch is concerned; and third, a consideration of the values of psychology in its various applications to practical problems. The work of the course will be based upon assigned reading, reports and class discussions. Two hours.]

Not given 1913-14.

COMPARATIVE RELIGION

[*II. PHILOSOPHY OF RELIGION. A constructive study of the religious principle in mankind. This course asserts the independence of the religious precinct and endeavors to relate philosophy of religion to other forms of philosophical culture. Two hours.] Professor Shaw.

III. DEVELOPMENT OF POSITIVE RELIGION. An investigation of the origin, development and culmination of the religious consciousness. Special attention is paid to the development of religion in India. Two hours. Hours to be arranged. Professor Shaw.

IV. THE RACIAL SENSE OF SIN. An inductive and psychological study of the sense of sin in various stages of the development of religion in the race and in the child, based on ritual, myth, literature, and observation. The successive topics will include the sense of sin as implied in primitive religion, the Egyptian Book of the Dead, the Babylonian penitential psalms, the Hindoo sacred literature, Confucianism, the Hebrew literature, the Greek and Roman religion, the Koran, and in Christianity, concluding with the new views of sin in modern social thinking. Lectures, readings, and discussions. One hour. Monday, 4.45-5.45. Professor Horne.

VI. RELIGION AND IRRELIGION IN CONTEMPORARY CULTURE. A study of the religious strivings of modern decadents. The course will pay special attention to Ibsen, Wagner, Metzsche, Tolstoi, Huysmans, Villiers de L'Isle, Adam, Sudermann and Gorky. Fridays 7-9. Professor Shaw.

GROUP IV. EDUCATION

Chairman of Group Committee: DEAN THOMAS M. BALLIET, PH.D.

Secretary of Group Committee: PROFESSOR JAMES E. LOUGH, PH.D.

Candidates for the Doctor's degree who wish to take their Major in Education, will be required to pass a preliminary examination in writing at least seven months before the Commencement at which the degree is to be conferred, which examination is to include the History of Education, the Principles of Education, Educational Psychology, and two of the foreign languages required to read the literature to be used in the preparation of the Thesis.

The number of courses required for the degree is discretionary with the Group Committee, and will vary according to the candidate's previous preparation and the quality of his work. At least three of the courses required, in addition to the requirements for the Master's degree, must be courses open to Graduate students only.

DEPARTMENT OF EDUCATION

Consultation hours: The hours are as announced under the Department of Philosophy, and Professor Balliet, Thursday, 3.30-3.40, and Saturday, 11.30-12, Dean's Office, School of Pedagogy. Professor MacDougall, before or after lecture hours; Professor Horne, Saturday, 9.45-10.15, and Monday, Tuesday and Friday, 3.30-3.45; Dr. Radosavljevich, Friday, 3.45-5.45; Dr. Sullivan, Thursday, 4.55.

The following courses given in the School of Pedagogy are graduate courses in Education. In this department three hours constitute one full course. The fees are \$10 for a one-hour course, and \$15 for a two-hour course. When the Major subject for the Doctor's degree is Education, at least four courses must be taken outside the department in correlated subjects.

P301. HISTORY OF EDUCATION. General Course. Two hours. Saturday, 11.15-1.15. Professor Horne.

[P306a. EDUCATIONAL CLASSICS—GREEK AND ROMAN. General Course.]
Professor Horne.

[P306b. EDUCATIONAL CLASSICS—MODERN NATURALISTS. General Course.]
Professor Horne.

P306c. EDUCATIONAL CLASSICS—MODERN REALISTS. General Course.
One hour. Tuesday, 3.45-4.45. Professor Horne.

Courses 306a, 306b, and 306c are each given every third year. They may be taken only with or after P301.

P206. PRINCIPLES OF EDUCATION. Two hours. General Course. Saturday, 9.15-11.15. Professor Balliet.

P211. GENERAL METHOD. General Course. Saturday, 12.15-1.15. Professor Balliet.

P252. SEMINAR IN GENERAL METHOD. Advanced Course. Wednesday, 4.45-5.45. Professor Balliet.

P421. METHODS OF TEACHING HISTORY IN ELEMENTARY SCHOOLS. General Course. One hour. Thursday, 3.45-4.45. Dr. Sullivan.

P406. SPECIAL METHOD IN ARITHMETIC AND READING. General Course. One hour. Thursday, 4.45-5.45. Professor Balliet.

P251. INTRODUCTION TO PRIMARY METHOD. Advanced Course. A study of the psychological bases of methods in Primary School subjects. The nature of the processes involved in Speech, Reading, Writing and Spelling will be taken up with special reference to the character of the child's activity in acquiring these functions. The external conditions which affect learning, including physiological defects, will also be discussed. In the light of principles thus derived the merits of different systems will be compared and questions of class and individual method considered. The course will be conducted by lectures, discussions and the reading of selected literature. One hour. Thursday, 3.45-4.45. Professor MacDougall.

P176. THE TEACHER'S PHILOSOPHY OF LIFE. Advanced Course. One hour. Tuesday, 4.45-5.45. Professor Horne.

P351. HISTORY OF EDUCATION. Seminar. Advanced Course. Two hours. Friday, 3.45-5.45. Professor Horne.

P266. RESEARCH IN EDUCATIONAL PROBLEMS. Advanced Course. This course is intended for advanced students and to afford an opportunity for the scientific investigation of specific educational problems. The subjects taken up by each student will be determined after consultation. The following are some of the topics now under investigation: Formation of habits; memory; fatigue; distraction; course of pupils through the grades; rapid promotion of pupils; relative value of oral and visual training in language and arithmetic, etc. The study of these topics will be continued, and such other subjects will be taken up as the interests of the individual student may suggest. Special permission is required for enrollment. One hour. Monday, 3.45-4.45. Professor Lough.

P271. SEMINAR IN EDUCATION. Advanced Course. One hour. Thursday, 10 A.M. Dean Balliet.

P216. MORAL EDUCATION. General Course. One hour. Monday, 3.45-4.45. Professor Horne.

[P221. RELIGIOUS EDUCATION. General Course. One hour.]
Professor Horne.

P166. ANTHROPOLOGICAL STUDY OF SCHOOL CHILDREN. Advanced Course
Two hours. Monday, 3.45-5.45. Assistant Professor Radosavljevich.

[P256. EXPERIMENTAL PEDAGOGY. Advanced Course. Two hours.]
Not given in 1913-14. Assistant Professor Radosavljevich.

P258. SEMINAR IN EXPERIMENTAL DIDACTICS. Advanced Course. One
hour, Saturday 9.15-10.15. Assistant Professor Radosavljevich.

[P171. CHILD STUDY. One hour. Advanced Course.] Not given in
1913-14. Assistant Professor Radosavljevich.

P257. SEMINAR IN EXPERIMENTAL PEDAGOGY. Advanced Course. Habit
Formation. One hour. Tuesday, 4.45-5.45.
Assistant Professor Radosavljevich.

P267. SEMINAR IN EDUCATIONAL PSYCHOLOGY. Two hours. Friday,
3.45-5.45.
Professor Lough and Assistant Professor Radosavljevich.

P272. LABORATORY RESEARCH IN EDUCATIONAL PSYCHOLOGY. Advanced
course. Two hours. Tuesday, 10-12 A.M.
Professor Lough and Assistant Professor Radosavljevich.

P273. ECONOMY AND HYGIENE OF LEARNING. Advanced Course. One
hour. Saturday, 12.15-1.15 A.M. Assistant Professor Radosavljevich.

P274. LABORATORY EXPERIMENTAL PEDAGOGY. Advanced Course. One
hour. Saturday, 10.15-11.15. Assistant Professor Radosavljevich.

P275. MODERN TENDENCIES IN PEDAGOGY. General Course. One hour.
Saturday, 11.15-12.15. Assistant Professor Radosavljevich.

I. DEPARTMENTAL SEMINAR. For candidates for the Doctorate. Full
Course. Two hours. Monday, 7.30-9.30.

Given jointly by Professors Balliet, Horne, Lough, MacDougall.

GROUP V. SOCIAL SCIENCES

Chairman Group Committee: PROFESSOR MARSHALL S. BROWN, M.A.

Secretary Group Committee: ASSISTANT PROFESSOR LEE GALLOWAY PH.D.

The degree of Doctor of Philosophy is conferred upon the basis of work successfully accomplished in regular courses, marked ability in productive research and scholarly attainment in the general field of the chosen department and its related subjects.

A broad knowledge and a comprehensive grasp of the general field of the department of the principal subject and an elementary knowledge of the general field of each of the other two departments of the group will be required, in addition to a thorough knowledge of the subject matter of the regular courses and of the special field chosen by the candidate.

A student enrolling for the Doctor's degree under one of the departments of this group must elect the seminar and such other courses as are advised by the head of that department and approved by the chairman of the group. In addition to the courses taken in the principal subject, this election must include two courses from among those offered by one or both of the other two departments of the group.

An oral examination will be held not less than seven months before the Commencement at which the candidate expects to be presented for the Doctor's degree, upon the general field of the principal and related subjects, and upon the languages in which examination must be sustained under the general requirements for the Doctorate (see p. 13). In addition to this and to the regular course examinations, a final written examination will be held, subsequent to the acceptance of the Doctoral thesis, upon the special field of the candidate's principal subject.

DEPARTMENT OF HISTORY

Consultation hours: Professor Brown, Saturdays, Sept. 27-Oct. 4, 9.30-12.30, University Building, Washington Square; Assistant Professor Jones, Thursday, Sept. 26, 3-5, and Saturday, Sept. 28, 11-1, Washington Square.

***I. CRITICAL STUDY OF THE FRENCH REVOLUTION AND NAPOLEONIC ERA.**

The aim of this course is to present the essential and sufficient causes and to trace the development of the great human drama that was enacted during this period. The often conflicting historical evidence is sifted and men and measures are weighed in the light of the latest researches. Special and limited subjects are assigned to members of the class as topics for more exhaustive study, the results of which are embodied in brief oral or in written reports. Two hours. Tuesday, 4-6. Assistant Professor Jones.

[III. HISTORY OF THE ORIGIN AND DEVELOPMENT OF THE CONSTITUTION OF THE UNITED STATES. The aim of this course is to explain the origin and the development of the constitution and institutions of the United States and to study the history of the events and movements that have given to the American body politic its present form. The more important

features of the American government and constitution are traced from European or Colonial origins through their successive stages of development down to the present time. Lectures, collateral reading, reports and research on special topics. Two hours.]

VI. AMERICAN HISTORY FROM 1789 TO 1828. An intensive study of the organization of the federal government and the rise of American nationality. The leading political and constitutional events and movements of American history, from the adoption of the Constitution to the victory of Jacksonian democracy will constitute the subject matter of this course. Lectures, reading and research and reports upon special topics. Two hours. Saturday, 11.15-1.15. Professor Brown.

*VII. AMERICAN HISTORY FROM 1828 TO 1856. The chief political and constitutional factors in American history, from the rise of the Jacksonian democracy to the formation of the Republican party, will constitute the subject matter of this course. Lectures will be supplemented by parallel readings and by research on assigned special topics. Two hours. Wednesday, 3.45-5.45. Professor Brown.

[*VIII. THE REVOLUTIONARY PERIOD IN AMERICAN HISTORY. A study of the causes and course of the American Revolution and of its completion by the formation of a permanent government for the United States. The course will deal with the history of the destruction of the political and governmental relations with Great Britain, with the conduct of the Revolution, with the government of state and nation during its progress and with the adoption of the present constitution. Military events will be subordinated to political and constitutional. Lectures will be supplemented by parallel readings and by research on special topics. Two hours.]

Professor Brown.

[*IX. THE CIVIL WAR PERIOD IN AMERICAN HISTORY. This course will deal with the causes and history of secession, with the political and constitutional history of both Federal and Confederate governments during the war, and with the attempted solutions of the great problems connected with reconstruction. Lectures, reading and research on special topics. Two hours.]

Professor Brown.

[*X. EUROPE DURING THE REFORMATION AND THE RELIGIOUS WARS. 1500-1648. This course will trace the development of those forces, political, social, and religious, which combined in the Protestant Revolution of the sixteenth century, and will follow the course of that revolution in all the European countries. It will then study the beginning of the Roman Catholic Counter-Reformation, as expressed in the Inquisition, the Jesuit Order, and

the Council of Trent, and will close with a discussion of the great religious wars, in France and Germany, which were a result of the Reformation. Two hours.] Assistant Professor Jones.

***XI. THE HISTORY OF FRANCE UNTIL 1789.** This course will cover in some detail the history of France from the Frankish invasions to the French Revolution; the development and decay of the Carolingian Empire, the institutions of feudalism, the growth of the modern French state, and the period of glory under the Bourbon kings will all be treated. Particular attention will be given to the study of European historical bibliography and historiography. Two hours. Thursday, 4-6.

Assistant Professor Jones.

SEMINAR IN AMERICAN HISTORY. A research course required of all candidates for the degree of Doctor of Philosophy in the Department of History. Two hours. Hours to be arranged by consultation with the professor in charge. Professor Brown.

DEPARTMENT OF ECONOMICS AND FINANCE

Consultation hours: Professor Johnson, Monday, 3 to 4; Dr. Galloway, Tuesday, 3 to 4, University Building, Washington Square.

***I. HISTORY OF POLITICAL ECONOMY.** The study of the development of economic theory, especial attention being given to Smith, Ricardo, Mill and the Austrian School. Two hours. Monday, 4-6. Professor Johnson.

II. MONEY, BANKING AND FOREIGN EXCHANGE. An historical and analytical study of the mechanism of exchange. The evolution of money and credit and their relation to prices, wages and the rate of interest, the money market, speculation and the foreign exchanges. Two hours. Tuesday, 7.45-9.45. Professor Johnson.

III. ECONOMIC READJUSTMENT. A study of several problems, social as well as economic, growing out of the necessity for continual readjustment to changing economic conditions. A special study will be made of the forces determining the standard of living, the efficiency of labor, eugenics, the control of monopoly and the survival of competition. The seminar method of individual research will be followed, New York City being regarded as an economic laboratory. Two hours. Tuesday, 4-6. Professor Powell.

***IV. CONTROL OF CORPORATIONS.** A comparative study of the relation of the State to corporations. The aim of the course is to trace the effectiveness of legislation in accomplishing the ends for which it was designed. Part of the course will be devoted to an historical survey of English and

American attempts at control, and the remainder to recent legislation in the States, in England, Germany and France. Two hours. Wednesday, 4-6. Assistant Professor Gerstenberg.

***V. RAILWAY TRAFFIC AND THE ECONOMICS OF TRANSPORTATION.** The topics considered are: the character of domestic traffic in the United States, the relation of the shipper to the railroad, freight classifications and rates, terminal facilities and problems of economical handling of traffic by manufacturing and business houses, advantageous location for different kinds of business, methods of conducting export business, and the theory and practice of government regulation. Students will be guided in research work on traffic problems. A special study of the situation in New York City will be encouraged. Two hours. Tuesday, 7.45 P. M.—9.45 P. M. Mr. Kennedy.

***VI. INDUSTRIAL EVOLUTION.** A study of the commercial and industrial development of England and the United States during the last century. Tuesday, 4.45-6.45. Assistant Professor Galloway.

***VII. ADVANCED ECONOMICS.** An analysis of the modern theories of value and distribution. Two hours. Thursday, 4-6. Assistant Professor Galloway.

***VIII. ELEMENTS OF STATISTICAL METHOD.** The topics taken up are: The statistician's place and task; steps taken in the solution of a statistical problem; translating the practical problem into a statistical problem; gathering data; auditing data; library method as applied to the preservation and organization of material containing data; developing the data (tabulation, averages and types, correlation); analysis and interpretation; statistical exposition, including graphics; statistical criticism. Each student must conduct a statistical investigation and prepare a report thereon. Two hours. Friday 7.45 P. M.—9.45 P. M. Mr. Case.

DEPARTMENT OF POLITICS AND PUBLIC LAW.

Consultation hours: Professor MacCracken, Saturdays, 10-11; Professor Jenks, Thursdays, 3 P. M.

I. MUNICIPAL GOVERNMENT. A study of the special political, economic and social problems created by the growth of modern cities. Forms and functions of city government. Two hours. Friday, 3.45-5.45.

Professor MacCracken.

II. MUNICIPAL FINANCE—SEMINAR COURSE. Sources of revenue. Taxation (a) for revenue, (b) for control and reform. Single tax and increment tax. Budget-making. Audit. Standards of Economy and Effi-

ciency. Borrowing powers and city credit. Forms and terms of city loans. Sinking fund administration. Half course. One hour. Saturday, 12.15-1.15.
Professor MacCracken.

III. MUNICIPAL ENTERPRISE—SEMINAR COURSE. Ownership and operation of industrial enterprises; water, light, transportation of passengers and freight, distribution of commodities, markets, docks. Ownership *vs.* Regulation. Public service commissions. Terms and conditions of franchises. Relative influence of municipal employees and of public service corporations in Municipal Government. May be combined with II as full course. Half course, one hour. Saturday, 11.15-12.15.

Professor MacCracken.

[IV. CITY PLANNING. Problems of land ownership and transportation. Freedom and restriction. Control of improvements. Co-operative house-keeping. Housing problems. Recent developments in Germany and England. City Planning Commissions in the United States. Half course, one hour.]

Professor MacCracken.

[V. CITY CHARTERS AND CHARTER-MAKING—RESEARCH COURSE. Political and legal status of municipal corporations. Relation of city and state, of city and county. Respective spheres of legislation. The function of the charter. Types of American charters. Commission government. Historical development of the charter in America. Half course, one hour.]

Professor MacCracken.

[VI. CITY GOVERNMENT AND PUBLIC HEALTH. Respective functions of federal, state and city governments in guarding the public health. Quarantine and control of immigration. City Health Department. Vital Statistics. Factors in death rate. Infant mortality. Administration of hospitals. Control of food and water supply, and disposal of sewage and refuse. Functions of health and morals police power. Half course, one hour.]

Professor MacCracken.

VII. HISTORY OF POLITICAL THOUGHT. A study of the writings of the leading political thinkers. Each student will be expected to make a careful study of the writings of one or more of these authors and to report in detail regarding his special contribution to the principles of government. Two hours. Hours to be arranged.

Professor MacCracken.

VIII. SEMINAR IN GOVERNMENT. A thorough investigation of leading governmental questions by means of individual reports and detailed discussions. The Seminar is intended especially for candidates for advanced degrees who are preparing theses, but is open to others who wish to make special investigations particularly of political and social problems. Two hours. Hours to be arranged.

Professor Jenks.

***IX. RELATION OF GOVERNMENT TO BUSINESS.** A study of the direct influence upon business of certain departments of the Federal Government as well as of the governmental action of the separate States and of Municipalities. The aim is to show as clearly as may be the value of governmental activity touching business, to discuss principles that do determine and should determine the scope of such activity and that in consequence may determine the attitude of business men towards such governmental action. Graduate students will be required to do extra collateral reading. Two hours. Fridays, 1.30-3.30 P.M. Professor Jenks.

X. MODERN QUESTIONS IN INTERNATIONAL POLITICS. A study of leading questions of the day in the field of international politics. The purpose of the course is not only to give general information but also to show the practical application to the study of current events of the principles of international law and politics. Such questions will be discussed as the Monroe Doctrine, the international aspects of the Panama Canal, the new alignment in the Balkans, China among the nations. Two hours. Second term. Professor Jenks.

***XI. AMERICAN DIPLOMACY AND FOREIGN POLICY.** The History and Methods of American diplomacy from the organization of the Colonies to the present time. Lectures and conferences. Half course, 2 hours. First Term. Wednesday, 4-6. Dr. Willis Fletcher Johnson.

XII. INTERNATIONAL LAW. The nature and development of international law. The rights and obligations of nations in times of peace. The arbitration movement. The laws of war and neutrality. America's contribution to international law. Two hours. First Term. Mr. ———

XIII. THE RIGHTS AND OBLIGATIONS OF THE CITIZEN. A course of lectures covering the legal and political rights and obligations of the citizen, combined with special laboratory work in Government carried on by the Director of the White Fund. Two hours. Mr. ———

XIV. CONSTITUTIONAL LAW. Two hours. Saturday 2-4. Mr. ———

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

Consultation hours: Dr. Binder, September 26, 3-6; September 27, 9-2.30; September 29, 3-6; through October, Mondays, 3-6; Wednesdays, Thursdays, and Fridays, 3-4; Saturdays, 8.30-9.15 and 1.15-2.00, at Washington Square.

***I. PRINCIPLES OF SOCIOLOGY.** The province of sociology; the elements, structure, forces and control of society; the laws and causes of progress. Two hours. Friday, 4-6. Dr. Binder.

[*II. CONTEMPORARY SOCIALISTS. (a) Forerunners of socialism. The endeavor toward social amelioration of the sentimental, ethical and revo-

lutionary reformers, such as Saint Simon, Carlyle, Marx. (b) The Christian Socialists in Germany, England, and America.

(c) The modern development of Socialism in Europe and America as a political force. (d) The changing basis of socialism from utopian to practical aims. Two hours.] Dr. Binder.

*III. ANTHROPOLOGY AND FOLKLORE. Description of human races; their distribution over the globe; early human remains; types of languages and cultures. Primitive man, mental and physical, Mythology, morality, religion, and art; castes and their functions; laws and customs; their origin and development. Special emphasis will be placed upon the psychological explanation of the great myths of the Greeks, Norsemen, and Finns, and students will be guided to these and other peoples who developed their philosophy through myths. Two hours. Saturday, 11.15-1.15.

Dr. Binder.

IV. HISTORY AND PHILOSOPHY OF CIVILIZATION. The natural conditions of civilization, *e. g.*, climate, soil, etc. Material civilization—exploitation of the forces of nature by man. Spiritual civilization—conditions of mental and moral progress of mankind. Interaction and inter-dependence of the various factors from prehistoric man to the present. Laws and tendencies shown in the historical development of social organization. Two hours. Saturday, 9.15-11.15.

Dr. Binder.

[V. INDIVIDUALISM AND SOCIALISM. This course is intended to find a working basis for society between the two opposing conceptions of extreme individualism and socialism. The history and philosophy of each movement will be given, and the typical representatives of each treated in detail, *e. g.*, Max Stirner, Nietzsche and others for the individualists, Spargo, Bax and others for the socialists. Inferentially, the conclusion will be established that a sane, progressive society needs both elements, since each contributes something essential to the social organization. Emphasis will be laid on the racial and psychological aspects of the two movements. Two hours.]

Dr. Binder.

VI. SOCIAL EFFICIENCY. This course consists of four parts. In the first, the gradual growth of social consciousness is traced (a) through religious ideas, *e. g.*, the pantheons of the Greeks and Romans, monotheism, and the universal church; (b) through political institutions, *e. g.*, the Althing of the Teutons and the Town Meeting of New England. In the second, the relation between social organization and social efficiency is examined; the material used for this purpose being the laws and customs of the Babylonians, Greeks, Romans, Anglo-Saxons, and Japanese. In the third, the increasing and deliberate stress laid on social efficiency is emphasized, particularly among

the Germanic and Anglo-Saxon peoples. In the fourth, a critique is given of the various political systems in relation to social efficiency, and a comparison made between industrial and cultural conceptions of social efficiency. Two hours. Friday, 7-9. Dr. Binder.

[VII. THE FAMILY AND EUGENICS. The family is the basic institution of society, and deeply concerned in all modern improvements—industrial, political, and educational. The first part of the course will give a full treatment of the family from the historical point of view, *e. g.*, polyandry, polygyny, matriarchy, patriarchy, and monogamy; and the religious, ethical, economic and sociological bearings of each form will be brought out. The emancipation of women in industry and politics will be taken up in detail. The second part will treat of the various measures proposed and attempted for the improvement of the human race, *e. g.*, mating, nutrition, etc. The conditions necessary for a healthy family life, and the legal difficulties of preventing the marriage of the mentally and physically unfit will be discussed. Two hours.] Dr. Binder.

SEMINAR IN SOCIOLOGY. Two hours. Hours to be determined.

Dr. Binder.

GROUP VI. MATHEMATICAL AND PHYSICAL SCIENCES

Chairman Group Committee: PROF. THOMAS W. EDMONDSON, PH.D.

Secretary Group Committee: PROF. J. LORING ARNOLD, PH.D.

General Requirements

1. The language requirement for candidates for the Doctorate is a reading knowledge of French and German.
2. At least seven months before the commencement at which the degree is to be conferred, the candidate will be required to pass a brief preliminary examination in his major subject, the purpose of which shall be to determine the fitness of the candidate to enter upon his last year of work.
3. In the final examination the candidate will be required to show a knowledge of the general historical development of his major subject.

Special Requirements

(a) MATHEMATICS. The candidate must complete courses in advanced calculus, differential equations, theory of functions, and mechanics (higher course), together with such other courses as shall be prescribed by the head of the Department of Mathematics.

(b) PHYSICS. The candidate must have a knowledge of general chemistry and of calculus. His subsequent work must include dynamics, a seminar course in general physics, such specific courses as the Department of Physics may consider appropriate for his special field of study, and the preparation of a thesis. The subject matter of these specific courses and of the thesis will be both experimental and theoretical.

(c) **CHEMISTRY.** Before beginning graduate work in chemistry, the candidate must be familiar with quantitative analysis and with general physics. He will be expected to complete thorough courses in each branch of chemistry; he must be familiar with analytical geometry and calculus; he must take an active part during each year of his candidacy in the seminar conducted by the department. His thesis will, as a rule, be of an experimental nature, and must be carried out under the immediate supervision of some member of the department.

The general subjects in which research work is at present offered in the department are (1) General and physical chemistry, (2) Analytical chemistry, (3) Inorganic chemistry.

The final written examination will be divided into four parts: (1) General and physical chemistry, (2) Analytical chemistry, (3) Inorganic chemistry, (4) Organic chemistry. The oral examination, in addition to the matter outlined in the general announcement, will include questions on the special field of the candidate's thesis.

(d) **GEOLOGY AND GEOGRAPHY.**

The candidate will be expected to have a general knowledge of the whole field of the geological and geographical sciences. The scope of his work in any special field will depend upon the nature of the research upon which his thesis is based, and will be determined separately for each candidate.

Admission to the Seminar will be granted only after the student shows a knowledge of the general history of the science (see Geology II), and some ability in research.

The general lines in which research leading to the Doctorate thesis is at present offered are (1) Physiography; (2) General Geology, in which emphasis may be laid upon any non-economic aspect; (3) Economic Geology, including Mining and Engineering Geology.

DEPARTMENT OF MATHEMATICS

Consultation hours: Professor Edmondson, at Washington Square, Friday, October 3, 4-6; Saturdays, September 27, October 6, 9.15-12.15.

*I. **CALCULUS.** A thorough review of the elementary calculus. Two hours. Saturday, 11.15-1.15. Professor Edmondson.

II. **ADVANCED DIFFERENTIAL CALCULUS.** Two hours. Friday, 4-6. Professor Edmondson.

[III. **ADVANCED INTEGRAL CALCULUS AND DIFFERENTIAL EQUATIONS.** Two hours.] Professor Edmondson.

[IV. **HIGHER PLANE CURVES.** Two hours.] Professor Edmondson.

[V. **SOLID ANALYTIC GEOMETRY.** Two hours.] Professor Edmondson.

[VI. **THEORY OF FUNCTIONS.** Two hours.] Professor Edmondson.

[VII. **PARTIAL DIFFERENTIAL EQUATIONS.** Two hours.] Professor Edmondson.

VIII. **ALGEBRAIC INVARIANTS.** Two hours. Professor Edmondson.

N. B. Course I. is not accepted for credit in a major series.

DEPARTMENT OF PHYSICS

Consultation hours: Professor Hering, at Washington Square, Fridays, September 26 and October 3 at 4 P.M.; Saturdays, October 4 and 11 at 11 A.M., other times by appointment; Professor Arnold daily during October at University Heights; Dr. Hausmann at the Polytechnic Institute, Brooklyn.

Ia. MAGNETISM AND ELECTRICITY. A lecture and laboratory course in dynamo-electric machinery and the commercial current, both direct and alternating. This course is especially designed for teachers of physics. Hours to be arranged. Full course. Professor Arnold.

Ib. MAGNETISM AND ELECTRICITY. A course in electro-mechanics, including some modern phases of electric and magnetic theory. A particular feature is the treatment of electric waves and the development of a wave theory of transmission lines, with special application to telephone circuits. Full course. Hours to be arranged.

Professor Arnold and Dr. Hausmann.

II. MECHANICS, THEORETICAL AND APPLIED. Full course.

Professor Hering.

IV. MECHANICS. (Higher Course.)

In Course IV no single textbook is adhered to, references being made to various standard works. The course is an extension of II, with reference to the theory of potential, and to dynamics and Advanced Statics. It also takes up the historical development of the science of mechanics. It is open to those who have taken Course II, or an equivalent course in mechanics, or have completed the undergraduate course in civil or mechanical engineering, and will be given if there are as many as five applicants for it. Full course.

Professor Hering.

***VIIIa. GENERAL PHYSICS.** For graduates in science, and especially for teachers of physics who desire a more advanced knowledge of the entire subject. Treats chiefly of mechanics, properties of matter and heat, with some attention to sound, light and electricity. Full course.

Professor Hering.

***VIIIb. GENERAL PHYSICS.** Treats chiefly of magnetism and electricity, sound and light, with some attention to the properties of matter and heat. Full course.

Professor Hering.

X. SOUND AND LIGHT. Full course.

Professor Hering.

XI. SEMINAR COURSE IN GENERAL PHYSICS. Full course.

Professor Hering.

Of the courses offered by Professor Hering, only XI and possibly IV or X will be open in 1913-14. The usual hour for meeting of classes during the week is 4 P.M., the laboratory work being performed, in large part, on Saturdays.

All the above courses except VIII require a knowledge of the calculus, and each course, except IV and XI requires work in the physical laboratory, besides written exercises and attendance upon lectures.

DEPARTMENT OF CHEMISTRY

Consultation hours: Professor Hill, Assistant Professor Simmons, Dr. Farnau and Dr. Moore, daily at the Havemeyer Laboratory, University Heights.

The courses enumerated below are given at the Havemeyer Laboratory, University Heights, Borough of the Bronx. The laboratory is open daily from 9 A.M. to 6 P.M. The student will in general be able to suit his own convenience in selecting his hours of laboratory attendance. The lectures will as a rule be given between 4 and 6 P.M. This enables teachers and others similarly employed in the neighborhood of New York City to attend these courses.

College graduates with an elementary knowledge of general inorganic chemistry are admitted to VIIa. This will prepare for VIIb and this in turn for the more advanced courses. It is therefore possible for one who can take only a single course each year ultimately to acquire a broad knowledge of chemistry.

Analytical Chemistry

VIIa. QUALITATIVE ANALYSIS. Two hundred and fifty laboratory hours. The course is planned to make the student thoroughly familiar with the ordinary scheme of qualitative analysis, and to afford some knowledge of the tests of the rarer elements, with practice in spectroscopic analysis and dry analysis.

Assistant Professor Simmons and Dr. Moore.

VIIb. QUANTITATIVE ANALYSIS. Open to students who have completed VIIa or its equivalent. Two hundred and fifty laboratory hours.

Assistant Professor Simmons and Dr. Moore.

(Chemistry VIIa and VIIb may be given either as elementary or as advanced courses; in the former case, they will not be credited toward degrees in Chemistry.)

XIV. ORGANIC ANALYSIS. Half course. One hundred and twenty-five laboratory hours. The course will include the usual methods of ultimate

analysis and the determination of the principal organic groups. Requirements for admission as in Course IX. Dr. Farnau.

Organic Chemistry

IV. ORGANIC CHEMISTRY. Lectures, two hours weekly. Open to students who have completed VIIa or its equivalent. Professor Hill.

IX. ORGANIC SYNTHESIS. Two hundred and fifty laboratory hours, devoted to the preparation of a number of typical organic compounds and the study of important organic reactions. Open to students who have completed VIIa and VIIb or their equivalents and have taken or are taking Course IV. Dr. Farnau.

Theoretical Chemistry

V. PHYSICAL CHEMISTRY. Lectures, two hours a week throughout the year. In addition, laboratory work will be given requiring at least 125 hours for its completion. Open to those who have completed VIIb or its equivalent. Dr. Farnau.

XI. THEORY OF ANALYTICAL CHEMISTRY. Half course. Lectures, two hours weekly. October to February. A development of the theories relating to analytical chemistry, with particular reference to the theory of solution and the law of mass action, and a discussion of the methods of qualitative and quantitative analysis. Professor Hill.

XV. ADVANCED INORGANIC CHEMISTRY. Half course. February to June. Lectures, two hours weekly, on special topics of inorganic chemistry. Assistant Professor Simmons.

(Courses XI and XV will be given in 1915-1916.)

XI. STEREOCHEMISTRY. Half course. October to February. Lectures, two hours weekly, on the historical development and present status of the theories of stereochemistry. Professor Hill.

XII. ELECTROCHEMISTRY. Half course. February to June. Lectures and laboratory work. One lecture weekly, and one hundred and twenty-five hours of laboratory work. Open to those who have completed V or its equivalent.

(Courses X and XII will be given in 1913-1914.)

VI. HISTORY OF CHEMISTRY. Half course. October to February. Lectures on the development of chemical thought, with essays by the students. Open to those who have completed VIIb or its equivalent. Professor Hill.

XIII. COLLOID CHEMISTRY. Half course. February to June. Lectures, two hours weekly, on the chemistry of disperse systems.

(Courses VI and XVII will be given in 1914-1915.)

XVI. SEMINAR. The course will be conducted by all the members of the department, and will include the study of a series of selected topics, each under the direction of one of the instructors. The topics will be varied from year to year. The course is required of all candidates for the doctorate.

XVII. RESEARCH. Properly qualified students may pursue experimental studies in connection with preparation of theses, and may have the work so done credited as equivalent to other laboratory courses. The work is to be done under the direction of a member of the department specially designated for each student.

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

*I. HISTORY OF GEOLOGY AND PHYSIOGRAPHY. This course aims to give a knowledge of the steps by which we have attained our present conception of the larger problems in geology and physiography. Half course; first term. Two hours a week of lecture, with collateral reading. Hours by appointment. Professor Woodman.

*II. GEOGRAPHIC INFLUENCES. Two hours a week of lectures with collateral reading. The various effects of geography upon history and economics are discussed. Half course; second term. Hours by appointment. Professor Woodman.

III. DISCUSSION OF SPECIAL TOPICS. Two hours lecture or conference weekly throughout the year, with library work and a thesis. Full course. Professor Woodman.

IV. RESEARCH COURSE. No formal lectures are given in this course, the work being done individually by the student. Periodical conferences are held in which the various members, including the instructor, report upon the progress of their studies or defend their finished theses. The subjects may be in physiography or geology, and may require field work supplemented by office and library study, or only library work. The desires of members are followed in such choice, as far as their previous training renders possible.

May be counted as one full course, or more; and may be taken in successive years. Professor Woodman.

V. SEMINAR COURSE. This is in general similar to Course IV, but is open only to candidates for the Doctorate. The method pursued is the same, and the work may count for more than one course when sufficient in amount. Professor Woodman.

GROUP VII. BIOLOGICAL SCIENCES

Chairman of Group Committee: PROF. CHARLES L. BRISTOL, PH.D.

Secretary of Group Committee. PROF. HOLMES C. JACKSON, PH.D.

A candidate for the Doctorate in this group shall possess a good reading knowledge of German, and one other modern language to be determined by the head of the department in which his major subject lies.

He shall satisfy his chief instructors that his preparation is adequate in those subjects that are essential to the special field which he seeks to enter.

At least seven months before the Commencement at which the degree is sought, he will be required to pass a brief preliminary examination in his major subject, the purpose of which shall be to determine the fitness of the candidate to enter upon his last year of work.

DEPARTMENT OF ANATOMY

Consultation hours: Professor Senior, daily in the morning, at the Medical College.

I. RESEARCH IN ANATOMY. Problems in Vertebrate Embryology.

Professor Senior.

II. RESEARCH IN HUMAN ANATOMY, Adult and Developmental.

Professor Senior.

DEPARTMENT OF BACTERIOLOGY AND PUBLIC HEALTH

Consultation hours: 11 A.M. to 12.30 P.M., Fridays and Saturdays.

Each course in this department will require approximately one fourth of the student's entire time for the year or half the student's time for a half year. The lectures and class meetings will be on Friday and Saturday mornings at 10 o'clock.

I. HYGIENE. Course of thirty lectures and sixty hours of practical field work in the city. Full course. Professor Park and Special Lecturers.

II. BACTERIOLOGY. Laboratory exercises and investigations upon acquired immunity. This course will take up the nature of the different anti-bodies, and the study of their development and duration in the immunized animals. Full course. Professor Park.

III. BACTERIOLOGY. A special study on any important group by bacteria. The subject to be decided upon after consultation. Full course.

Professor Park.

DEPARTMENT OF ZOÖLOGY

Consultation hours: Professor Bristol at Biological Laboratory, University Heights, Saturdays at 9 A.M.

I. COMPARATIVE ANATOMY. (Laboratory Course.) Professor Bristol.

II. RESEARCH IN ZOÖLOGY. (Laboratory Course.) Professor Bristol.

DEPARTMENT OF BIOLOGICAL CHEMISTRY

Consultation hours: Daily, 9 A.M. to 5 P.M., at the Medical College Laboratory.

I. BIOLOGICAL CHEMISTRY, RESEARCH COURSE. Professor Mandel.

DEPARTMENT OF PHARMACOLOGY AND APPLIED
THERAPEUTICS

Consultation hours: Professor Wallace, daily, at the Medical College.

I. PHARMACOLOGY. Lecture course, second term, five hours weekly, mornings; and first term, one hour weekly, afternoons. The latter is a continuation of the second term course. Professor Wallace.

II. PHARMACOLOGY. Laboratory course, six hours weekly, mornings and afternoons. This course consists of animal experiments on the actions of drugs, and of the study of pharmaceutical preparations. Professor Wallace.

III. PHARMACOLOGY. Research. Special work on assigned subjects. The laboratory is open for this work all day. Professor Wallace.

IV. APPLIED THERAPEUTICS.

(a) Lecture course, one hour weekly throughout the year.

Professor Le Fevre.

(b) Hospital and Laboratory course, six hours weekly throughout the year. The therapeutic actions of drugs on animals is investigated and their application to patients studied. Professors Le Fevre and Wallace.

V. APPLIED THERAPEUTICS. Research course. Special work, laboratory and clinical, on assigned subjects. Professors Le Fevre and Wallace.

Those electing Courses IV and V must have had as a preliminary Courses I and II.

DEPARTMENT OF PHYSIOLOGY

Consultation hours: Professor Jackson, daily at the Medical College Laboratories.

***I. PHYSIOLOGY.** Lecture Course. First term, four hours weekly, 9-10 A.M. Second term, three hours, weekly, in the morning. Professor Jackson.

Ia. PHYSIOLOGY OF NUTRITION AND DIET SELECTION. Lecture course with conferences, open to students who have completed I or its equivalent. Two hours a week, Friday, 3.30-5.30. Professor Jackson.

These lectures will be given only upon the application of five or more students.

***II. PRACTICAL PHYSIOLOGY.** (Laboratory Course in Experimental Physiology. Laboratory fee, \$5.00.) Three hours. Saturdays, 9.00-12.00. Dr. Ewing.

Work in physics, biology and chemistry, equivalent to that required for entrance into the medical department is a prerequisite for this course.

Physiology I and II can not be counted as courses in the major series, if the candidate is working in the department.

III. RESEARCH WORK IN PHYSIOLOGY. (Laboratory Course. Laboratory fee, \$20.00.) Open all day. Professor Jackson.

SUMMER COURSES FOR WHICH CREDIT WILL BE GIVEN IN
THE GRADUATE SCHOOL.

- CHEMISTRY S7. Research Laboratory Course. Two hours.
Professors Hill and Simmons.
- EDUCATION S1. History of Education. Two hours. Professor Horne.
- EDUCATION S2. Seminar in History of Modern Education. One hour.
Professor Horne.
- EDUCATION S9. Experimental Pedagogy. Two hours.
Assistant Professor Radosavljevich.
- ENGLISH S5. Studies in Poetry and Prose, 1660-1715. Two hours.
Professor Bouton.
- GEOGRAPHY AND GEOLOGY S12. Seminar in Geographic and Geologic
Problems. One or two hours. Professor Woodman.
- GERMAN S5. History of German Literature. Two hours.
Professor McLouth.
- HISTORY S3. Constitutional and Political History of the United States
since 1860. One hour. Professor MacDonald.
- HISTORY S6. History of the French Revolution. One hour.
Assistant Professor Jones.
- LATIN S5. Cicero's Life and Letters. Two hours. Professor Sihler.
- PSYCHOLOGY S5. Experimental Psychology. Two hours.
Assistant Professor Radosavljevich.
- SEMITIC LANGUAGES S3. Advanced Hebrew. One hour.
Professor Isaacs.
- SEMITIC LANGUAGES S5. Targum on Genesis. One hour.
Professor Isaacs.

DOCTORS OF PHILOSOPHY OF NEW YORK UNIVERSITY,
1887-1912.

1887.

JAMES CREIGHTON HUME. *B.A., 1877; M.A., 1879, Princeton University.*
Clergyman.
Brooklyn, N. Y.

MINDO GEORGE VULCHEFF. *B.A., 1883; M.A., 1886, Princeton University.*
Clergyman.
United States Immigration Interpreter, Department of Commerce and Labor. Ellis
Island, N. Y. H.

1888.

CHARLES FERDINAND DOWD.* *B.A., 1853; M.A., 1856, Yale University.*
Educator.
d. Nov. 12, 1904, Saratoga, N. Y.

EMORY WINFIELD GIVEN. *B.A., 1879; Bates College; M.A., 1884, Princeton*
University. Educator. Classical Master in the Newark Academy.
530 Ridge St., Newark, N. J.

ROBERT CRAWFORD HALLOCK. *B.A., 1882; M.A., 1885, Princeton Univer-*
sity; D.D., 1900, Richmond College, Ohio. Clergyman. In charge of
Presbyterian Church at Wheatland, N. Y.
Scottsville, N. Y.

NATHANIEL CARPENTER HENDRICKSON. *B.A., 1880; M.A., 1883; LL.B.,*
1884, Columbia University. Lawyer.
47 Canal St., Jamaica, N. Y.

CHARLES TAYLOR POMEROY. *B.A., 1877; M.S., 1880, Rutgers College.*
Manufacturer. President and Treasurer of the I. Pomeroy Manufac-
turing Co., Newark, N. J.
Bramhall Road, Rahway, N. J.

SAMUEL MERSEREAU WOODBRIDGE. *B.A., 1877; M.A., 1880, Rutgers*
College.
723 Story Building, Los Angeles, Cal.

DAVID GOURLEY WYLIE. *B.A., 1879; M.A., 1883, Geneva College; D.D.,*
1897, Lafayette College. Clergyman. Pastor, Scotch (Presbyterian)
Church, New York City.
10 W. 96th St., New York City.

1889.

CHARLES H. BOYNTON. *B.A.*, 1886, *Rochester University*; *B.D.*, 1891, *General Theol. Seminary*. *Clergyman*. *Adjunct Professor of Homiletics and Pedagogy in the Department of Pastoral Theology, General Theol. Seminary, New York City*.

129 Engle St., Englewood, N. J.

JESSE WENDELL BROOKS. *B.A.*, 1881; *M.A.*, 1884, *Rutgers College*. *Clergyman*. *Secretary, Chicago Tract Society*; office, 440 S. Dearborn St., Chicago, Ill.

Wheaton, Ill.

JAMES CLARENCE JONES. *B.S.*, 1886, *Hobart College*; graduate of *General Theol. Sem.*, New York City, 1889. *Clergyman*. *Rector, St. Mary's Protestant Episcopal Church, Brooklyn*.

230 Classon Ave., Brooklyn, N. Y.

JOHN SHIELDS KENNEDY. *B.A.*, 1886; *LL.B.*, 1887; *M.A.*, 1888, *New York University*. *Lawyer*.

Red Hook, N. Y.

HENRY M. LIVINGSTON.* *B.S.*, 1877, *New York University*; *B.D.*, 1880, *Drew Theological Seminary*. *Clergyman*.

d. July 9, 1890, Brooklyn, N. Y.

ADAM McCLELLAND. *M.A.*, 1866; *D.D.*, 1879, *New York University*. *Clergyman*.

Philadelphia, Pa.

JONATHAN MAGIE MEEKER. *B.A.*, 1873, *Wesleyan University, Connecticut*; *B.D.*, 1880, *Drew Theological Seminary*. *Clergyman*. *President, Centenary Collegiate Institute, Hackettstown, N. J.*, 1908-

Hackettstown, N. J.

PETER HOUSTON MILLIKEN. *B.A.*, 1876; *M.A.*, 1879; *D.D.*, 1879, *Rutgers College*. *Clergyman*. "*Pastor for Strangers*" in *Marble Collegiate Church (Reformed)*, New York City.

1 W. 29th St., New York City.

CARL LEOPOLD SPETHMANN. *B.A.*, 1877; *M.A.*, 1880, *Princeton University*. 20 Lawn Rg. Road, Orange, N. J.

MARTYN SUMMERBELL. *B.A.*, 1871; *M.A.*, 1874, *College of the City of New York*; *D.D.*, 1889, *Union Christian College*; *LL.D.*, *Elon College*, 1909. *Educator*. *President, Pulmer Institute (Starkey Sem.)*, Lakemont, N. Y.

Lakemont, N. Y.

1890.

CHARLES O. DEWEY. *B.A.*, 1885; *M.A.*, 1888, *Syracuse University*. *Educator*. *Principal Public School No. 136, Brooklyn, N. Y.*

467 McDonough St., Brooklyn, N. Y.

- ALLISON DRAKE. *B.A.*, 1886; *M.A.*, 1887, *St. Xavier's College, Cincinnati*.
- HENRY H. HUTTON.* *B.A.*, 1857; *M.A.*, 1860, *Syracuse University*.
d. 1908, New Jersey.
- JOSEPH J. LAMPE. *B.A.*, 1864; *M.A.*, 1867; *D.D.*, 1889, *Knox College*.
Clergyman. Professor of Old Testament Languages and Literature,
Omaha Theological Seminary, 1895.
Omaha, Nebraska.
- ISAAC CORIELL PIERSON.* *B.A.*, 1865; *M.A.*, 1868, *New York University*.
Thesis: "Life Insurance, an Applied Science." Actuary. Member,
1890-1908; Secretary, 1895-1908, Council of New York University.
d. Sept. 10, 1908, New York City.
- ADDISON BROWN POLAND. *M.A.*, 1876, *Wesleyan University. Educator.*
Superintendent of Schools, Newark, N. J.
258 Montclair Ave., Newark, N. J.
- EDWARD RICHARD SHAW.* *Ph.B.*, 1884; *M.A.*, 1886, *Lafayette College*.
Educator. Dean of the School of Pedagogy, New York University, 1894-
1901.
d. Feb. 11, 1903, Yonkers, N. Y.
- HENRY HALE SLEEPER, (name changed to Gifford in 1909). *B.A.*, 1884;
M.A., 1887, *Princeton University. Clergyman. Rector, Grace Church*
Elizabeth, N. J.
Elizabeth, N. J.

1891.

- SAMUEL L. BEILER. *B.A.*, *B.D.*, 1877, *Boston University; M.A.*, 1882, *Ohio,*
Wesleyan University.
Redlands, Cal.
- CORNELIUS RYCKMAN BLAUVELT. *B.A.*, 1864; *Union Theol. Sem.*, 1867;
M.A., 1871, *New York University. Clergyman.*
100 S. Broadway, Nyack, N. Y.
- ARCTURUS Z. CONRAD. *B.A.*, 1882; *M.A.*, 1885, *Carleton College. Clergy-*
man. Pastor, Park Street Congregational Church, Boston, Mass.
Hotel Westminster, Boston, Mass.
- GEORGE TAYLOR ETTINGER. *B.A.*, 1880; *M.A.*, 1883, *Muhlenberg College*.
Educator. Dean of the Faculty of Muhlenberg College.
435 Union St., Allentown, Pa.
- JAMES WINTHROP HAGEMAN. *B.A.*, 1872; *M.A.*, 1875, *Princeton*
University.
Balston Spa, N. Y.
- JOHN HADDAEUS. *Wurms-on-Rhine Gymnasium. B.D.*, 1884, *Meadville*
Theological School. Clergyman.
106 Kosciusko St., Brooklyn, N. Y.

- THOMAS J. JONES. *B.A., 1888, Ripon College. Gradutae of Union Theol. Seminary, New York City, 1891. Clergyman. Missionary to Shais-baganj, ABR, India, 1907-1909.*
- WILLIAM J. LEGGETT. *B.A., 1872; M.A., 1875, Rutgers College. Clergyman. Pastor, Reformed Church, Chatham, N. Y. Chatham, N. Y.*
- CHARLES EUGENE MACCHESNEY. *B.A., 1883; M.A., 1886, University of Vermont; LL.B., 1892; LL.M., 1893, New York University. Educator. Head Master, Paterson Classical Institute. 33 Church St., Paterson, N. J.*
- BURTIS CUNNINGHAM MAGIE. *B.A., 1872; M.A., 1875, Princeton University; Pd.D., 1892, New York University. Educator. Principal of Public School No. 18, Manhattan, New York City. 121 E. 51st St., New York City.*
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1892.

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1893.

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1895.

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137 S. 6th Ave., Mount Vernon, N. Y.

1896.

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1897.

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1898.

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Nyack, N. Y.

1899.

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1900.

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1902.

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1903.

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1904.

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1905.

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CARL W. KINKELDY. B.A., 1893, *College of the City of New York*; M.A., 1898, *New York University*. Thesis: "*Critique of Ladd's Philosophy.*" Educator. Instructor in German, *College of the City of New York*.
1041 Faile St., New York City.

LEWIS GASTON LEARY. B.S., 1897, *Rutgers College*. Thesis: "*The Cosmology of the Old Testament.*" Clergyman. Pastor, *Huguenot Memorial Church (Presbyterian)*, Pelham Manor, N. Y.
Pelham Manor, N. Y.

- ORVILLE REED. B.A., 1877, Yale College; Union Theol. Sem., 1878-80. Thesis: "Beginnings of Rational Christianity in England, Culminating in Matthew Tindal's Philosophy of Religion." Clergyman. Pastor, Trinity Church (Presbyterian), Montclair, N. J.
74 Midland Ave., Montclair, N. J.

1906.

- JOHN ROBERT BRAEUER. M. Litt., 1893, Concordia College, Concordia Theol. Sem., 1896. Thesis: "Classic Pagan References of Nascent Christianity." Clergyman. Pastor, St. Paul's English Lutheran Church, Seattle, Wash.
4119 Phinney Ave., Seattle, Wash.
- VICTOR EMANUEL FRANCOIS. University of Brussels, 1887; M.A., 1892, University of Michigan. Thesis: "Walter Scott and Alfred de Vigny." Educator. Associate Professor of French, College of the City of New York.
450 W. 147th St., New York City.
- THOMAS R. MOORE. B.A., 1897; M.A., 1905, New York University. Thesis: "Trust Companies in the State of New York." Educator. Instructor in History, College of the City of New York.
14 W. 128th St., New York City.
- HENRY NEUMANN. B.A., 1900, College of the City of New York; M.A., 1903, New York University. Thesis: "The Villain in English Novels." Educator. Leader, Brooklyn Society for Ethical Culture.
304 Marlborough Road, Brooklyn, N. Y.
- MARCUS NEUSTAEDTER. Ober-Gymnasium, Brody, Galicia, 1888; M.D., 1896, University and Bellevue Hospital Medical College. Thesis: "The Rise and Development of the Concept of Experience in the History of Philosophy." Physician. Medical Inspector, New York City Health Dept.; Asst. Physician, Children's Department, Mt. Sinai Hosp., N. Y. C.; Medical Examiner, N. Y. Life Insurance Co.; Instructor in Nervous Diseases, University and Bellevue Hospital Medical College, New York University.
111 Second St., New York City.
- EARLE FENTON PALMER. B.S., 1888, College of the City of New York; M.A., 1904, New York University. Thesis: "An Inductive Study of the Metaphorical Language of the Book of Job." Educator. Instructor in English, College of the City of New York.
828 St. Nicholas Ave., New York City.
- THOMAS VALENTINE PARKER. B.A., 1900, M.A., 1903, Amherst College. Thesis: "The Relations of the United States Government with the Cherokee Tribe of Indians." Clergyman. Pastor, Grace Church (Baptist). Brooklyn, N. Y.
465 43rd St., Brooklyn, N. Y.

- ADAM FRANKLIN ROSS. B.A., 1889, M.A., 1900, Brown University. Thesis: "The History of Lotteries in the State of New York." Educator. Instructor in History, Stuyvesant High School, New York City; Instructor in Political Science, Columbia University (Extension Teaching).
49 Herkimer St., Brooklyn, N. Y.

1907.

- GUSTAV WALTHER EICKMANN. B.A., 1897, M.A., 1898, University of Wyoming. Thesis: "Die Angelogie und Daemonologie des Korans in Vergleich zu der Engel und Geisterlehre der Heiligen Schrift." Clergyman. Pastor, St. Luke's (Lutheran) Church, New York City.
1722 Adams St., Bronx, New York City.
- LEE GALLOWAY. B.S., 1896, University of Minnesota. Thesis: "Economics of Dock Management." Educator. Assistant Professor of Commerce and Industry, Recorder of the School of Commerce, Accounts and Finance, New York University.
New York University, Washington Square, New York City.
- CHARLES E. HERRING. B.A., 1883, College of the City of New York. Thesis: "The Worship of Creative Energy, as Symbolized by the Serpent." Clergyman.
102 Central Ave., Plainfield, N. J.
- FREDERICK WILLIAM HOCK. Muelhausen Gymnasium (German), 1888; M.A., 1899, New York University. Thesis: "The Metrical Variants in Plautus." Clergyman and Educator. Pastor, Second German Presbyterian Church, Newark, N. J.; Assistant Professor of Modern Languages, Stevens Institute of Technology, Hoboken, N. J.
283 North Sixth St., Newark, N. J.
- FREDERICK B. ROBINSON. B.A., 1904, College of the City of New York; M.A., 1906, New York University. Thesis: "The Development of the Concept of Value in American Political Economy." Educator. Instructor in Public Speaking in the College of the City of New York.
456 W. 149th St., New York City.
- THOMAS TRAVIS. Ph.B., Wesleyan University; B.D., 1903, Union Theological Seminary; M.A., 1904, Columbia University. Thesis: "Juvenile Delinquency." Clergyman. Pastor, Watchung Avenue Congregational Church.
179 Watchung Ave., Montclair, N. J.
- LEWIS HENRY TUTHILL. B.A., 1884; M.A., 1885, Cornell University. Thesis: "A Study of the 'Ad C. Herrenium.'" Educator. Principal, Public School No. 16, Brooklyn, N. Y.
1239 Pacific St., Brooklyn, N. Y.

1908.

- HENRY N. DAVIDSON. B.A., 1902, *College of the City of New York*; M.A., 1906, *New York University*. Thesis: "*Eucken's Philosophy as a Foundation of Characteristic Religion*." Educator. Teacher in Public School No. 82, New York City.
828 E. 165th St., New York City.
- CHARLES CUDWORTH DELANO, JR. B.A., 1898; M.A., 1899, *Boston University*. Thesis: "*The Private Economy of the Athenians of the Fourth and Fifth Centuries*." Educator. Instructor in Latin, Brooklyn Latin School.
40 Monroe Place, Brooklyn, N. Y.
- BENJAMIN GARRISON DEMAREST. LL.B., 1888, *Columbia University*; LL.M., 1892; B.S., 1905; M.A., 1907, *New York University*. Thesis: "*The Psychology of Legal Evidence*." Lawyer.
1 Lloyd Place, Montclair, N. J.
- EDOARDO SAN GIOVANNI. B. Litt., 1897, *Royal Lyceum, Corregio, Italy*; M.A., 1906, *New York University*. Thesis: "*De Versu Heroico Statiano ad Vergilianum Relato*." Educator. Instructor in Latin, Manual Training High School, Brooklyn, N. Y.
704 8th Ave., Brooklyn, N. Y.
- CARL ALBERT KRAUSE. B.A., 1895; M.A., 1897, *Eureka College (Illinois)*; *University of Marburg*, *University of Lausanne*. Thesis: "*Gerhart Hauptmann's Treatment of Blank Verse*." Educator. Head of Modern Language Dept., Jamaica High School, Jamaica, N. Y.; Lecturer on *Methods in Modern Foreign Languages*, *New York University*.
1087a Prospect Place, Brooklyn, N. Y.
- LINDSAY B. LONGACRE. E.M., 1892, *Columbia University*; B.D., 1896, *Drew Theol. Sem.* Thesis: "*Elijah and Elisha and Their Part in the Political and Religious Crisis in Israel in the Ninth Century, B.C.*" Clergyman. Professor of Old Testament Literature and Religion in the *Iliff School of Theology*, *University Park, Colorado*.
University Park, Colorado.
- CORNELIA E. MACMULLAN. B.S., 1904; Pd.M., 1902; Pd.D., 1903; M.A., 1906. Thesis: "*The Elegy in English Literature*." Educator. Head of Department of English Literature, State Normal School, Montclair, N. J.
State Normal School, Montclair, N. J.
- ALBERT AMÉDÉE MÉRAS. B.A., 1900, *College of the City of New York*; M.A., 1904, *New York University*. Thesis: "*Genesis of the Monroe Doctrine*." Educator. Instructor in Newtown High School, Elmhurst, L. I.
9 Elmhurst Ave., Elmhurst, L. I.

THOMAS JOHN MULVEY. *St. Mary's College, 1893; College of Propaganda, Rome, 1896; M.A., 1904, New York University. Thesis: "The Seven Books of Arnobius adversus Nationes."* Clergyman. Chaplain, King's County Penitentiary.

108 St. Edward's St., Brooklyn, N. Y.

WILLIAM BRADLEY OTIS. *B.A., 1901, Iowa College; M.A., 1904, Columbia University. Thesis: "American Verse in the Seventeenth and Eighteenth Centuries."* Educator. Instructor in English, College of the City of New York.

504 W. 112th St., New York City.

GEORGE CLARE SPRAGUE. *B.A., 1905, Olivet College. Thesis: "The Land System of Colonial New York."* Educator and Lawyer. Registrar, and Instructor in Law, New York University.

323 E. 25th St., Brooklyn, N. Y.

JOHN ANDY THACKSTON. *B.A., 1899, Furman University; Pd.M., 1907, New York University. Thesis: "Primary and Secondary Education in South Carolina."* Educator. Professor, University of Florida.

Gainesville, Fla.

WILLIAM T. WHITNEY. *B.S., 1904; Pd.D., 1905, New York University. Thesis: "Lotze's Conception of Reality."* Educator. Superintendent of Schools.

Madison, N. J.

AUGUSTA MANIE WILSON. *B.A., 1897, Normal College of the City of New York; B.S., 1906, New York University. Thesis: "The Principle of the Ego in Philosophy with Special Reference to its Influence on Schlegel's Doctrine of 'Ironie'."* Educator. Head of Department, Public School No. 25, New York City.

190 Wadsworth Ave., New York City.

1909.

ANEES TANNUS BAROODY. *B.A., Syrian Protestant College. Thesis: "The Woman of the Koran."*

Care of English Post Office, Beirut, Syria.

CHARLES GRENVILLE COLE. *B.A., 1898; M.A., 1900, Princeton University. Thesis: "The Poetical Elements in the Diction and Syntax of Tacitus."* Educator. Instructor in Greek, Latin and History, in Cartaret Academy, Orange, N. J.

83 Cleveland St., Orange, N. J.

JAMES ALBERT HAMILTON. *B.A., 1898, University of Rochester; M.A., 1903; LL.B., 1904, New York University. Thesis: "Negro Suffrage and Congressional Representation."* Educator. Instructor in Public School No. 9, New York City.

81 West 181st St., New York City.

- CHARLES E. HESSELGRAVE. *B.A.*, 1893, *Middlebury College*; *M.A.*, 1899, *New York University*. Thesis: "*The Hebrew Personification of Wisdom.*" Clergyman. Pastor, *Congregational Church, Chatham, N. J.*
Orchard St., Chatham, N. J.
- SAMUEL KATZ. *B.A.*, 1904, *College of the City of New York*; *M.A.*, 1908, *New York University*. Thesis: "*John Home.*" Educator. Instructor in *Public School No. 84, Brooklyn, N. Y.*; also in charge of *Brooklyn Evening Elementary School for foreigners.*
751 Howard Ave., Brooklyn, N. Y.
- PAUL KLAPPER. *B.A.*, 1904, *College of the City of New York*; *M.A.*, 1908, *New York University*. Thesis: "*The Attitude of Organized Labor toward Labor-saving Machinery.*" Educator. Instructor in Education, and Secretary of Extension Courses, *College of the City of New York.*
2567 Decatur Ave., Bronx, New York City.
- DAVID KLEIN. *B.A.*, 1902, *College of the City of New York*; *M.A.*, 1904, *Columbia University*. Thesis: "*Literary Criticism among the Elizabethan Dramatists.*" Educator. Instructor in English, *College of the City of New York.*
1065 Boston Road, Bronx, New York City.
- MICHAEL HENRY LUCEY. *B.S.*, 1906; *M.A.*, 1908, *Columbia University*. Thesis: "*The Catholic Parish Schools in New York City.*" Educator. Instructor in History and Economics, *DeWitt Clinton High School, New York City.*
Emerson Hill, Staten Island.
- ALEXANDER LYONS. *B.L.*, 1891, *Cincinnati University*; *M.A.*, 1905, *New York University*. Thesis: "*Shaftesbury's Ethical Principle.*" Clergyman. Rabbi, *Congregational Beth Eloheim, Brooklyn, N. Y.*
526 8th St., Brooklyn, N. Y.
- ARTHUR SELWYN-BROWN. *B.S.*, 1906; *M.A.*, 1908; *J.D.*, 1911, *New York University*. Thesis: "*The Psychology of Evaluation.*" Broker.
332 W. 55th St., New York City.
- GILES JOHN SWAN. *B.A.*, 1897, *College of the City of New York*; *M.A.*, 1905, *New York University*. Thesis: "*The Political Philosophy of John C. Calhoun.*" Educator. Instructor in *Public School No. 147, New York City.*
632 Eastern Parkway, Brooklyn, N. Y.

1910.

- JANE GRAY CARTER. *B.A.*, 1901, *Normal College of the City of New York*; *M.A.*, 1904, *New York University*. Thesis: "*Quintillian's Didactic Metaphors.*" Educator. Instructor, *Normal College of the City of New York.*
426 Central Park West, New York City.

- CHARLES G. ELLIS. *B.A.*, 1890, *M.A.*, 1893, *Lafayette College*. *Thesis*: "Jonathan Edwards' Ethics." *Clergyman*. *Pastor*, Roundout Presbyterian Church, Kingston, N. Y.
18 Wurts St., Kingston, N. Y.
- ARTHUR C. FLESHMAN. *B.S.*, 1884; *M.S.*, 1892, *Lebanon University*; *M.A.*, 1903, *Columbia University* (Washington, D. C.). *Thesis*: "The Metaphysics of Education." *Educator*. *Instructor in Education*, De Pauw University.
De Pauw University, Greencastle, Ind.
- CLAYTON CHARLES KOHL. *Ph.B.*, 1901, *Ohio State University*; *Pd.M.*, 1907, *New York University*. *Thesis*: "Claims as a Cause of the War with Mexico." *Educator*. *Professor*, Mount Holyoke College.
Mt. Holyoke College, South Hadley, Mass.
- ABRAHAM J. KOREY. *B.S.*, 1906, *New York University*. *Thesis*: "Private Benefactions to Public Schools in the United States." *Educator*. *Instructor*, Public School No. 130, Brooklyn, N. Y.
315 Lefferts Ave., Brooklyn, N. Y.
- ROBERT MACDONALD. *B.A.*, 1894; *M.A.*, 1895; *B.D.*, 1896, *Harvard University*. *Thesis*: "A Critique of the Modern Social Theories of Conscience in the Light of an Intellectualistic Ideal." *Clergyman*. *Pastor*, Washington Avenue Baptist Church, Brooklyn, N. Y.
100 Lefferts Place, Brooklyn, N. Y.
- PATRICK J. O'DONNELL. *B.D.*, 1901; *B.C.L.*, 1908, *Maynooth College* (Ireland); *M.A.*, 1908, *Columbia University*. *Thesis*: "The Role of Attention and Habit in the Determination of Social Mind and Corporate Life." *Clergyman*.
135 E. 96th St., New York City.
- ADDA PEARL SACKETT. *Pd.M.*, 1903; *Pd.D.*, 1904; *B.S.*, 1906, *New York University*. *Thesis*: "The Discrimination of School Children in the Field of Visual Perception." *Educator*. *Instructor*, Public School No. 147, Brooklyn, N. Y.
224 Lexington Ave., New York City (or Sidney, N. Y.)
- WILLIAM JOSEPH THOMPSON. *B.S.*, 1884, *University of Pennsylvania*; *B.D.*, 1892, *Drew Theological Seminary*; *M.A.*, 1901, *Harvard University*. *Thesis*: "A Sociological Study of a Denominational Group of Church Officers." *Clergyman and Educator*. *Professor of Religious Psychology and Pedagogy*, Drew Theological Seminary, Madison, N. J.
Drew Theological Seminary, Madison, N. J.
- MARK WALDMAN. *M.A.*, 1902. *Columbia University*. *Thesis*: "Ideal View of Pre-Exilic Education as Introductory to the Talmudic, the Mediæval, and the Modern Era." *Educator*. *Instructor*, Bryant High School, Long Island City, L. I.
1481 Bryant Ave., Bronx, New York City.

1911.

- ADALINE MAY CONWAY. *B.A.*, 1902, *Normal College of the City of New York*; *M.A.*, 1908, *New York University*. Thesis: "*The Essay in American Literature.*" Educator. Instructor, Public School No. 130, Brooklyn, N. Y.
206 E. 3rd St., Brooklyn, N. Y.
- GEORGE MILLARD DAVISON. *B.A.*, 1892, *Cornell University*. Thesis: "*The Possibility of an Improved Course of Study for the Intelligent Children of Cultured Parents.*" Educator. Principal, Public School No. 155, Brooklyn, N. Y.
1429 Union St., Brooklyn, N. Y.
- C. EDWARD JONES. *Pd.B.*, 1904; *Pd.M.*, 1905, *Albany Normal College*; *B.S.*, 1907; *M.A.*, 1908, *New York University*. Thesis: "*Type Forms of Literature in Relation to High School Education.*" Educator. Associate Superintendent of Schools; Principal, Teachers' Training School, Albany, N. Y.
89 Woodlawn Ave., Albany, N. Y.
- WALLACE FRANKLIN JONES. *B.A.*, 1907, *University of Illinois*; *M.A.*, 1908, *Columbia University*. Thesis: "*An Experimental-Critical Study of Present Systems of Grading and Promotion.*" Educator. Head of Department of Education, *University of South Dakota*.
Vermilion, S. Dak.
- JOSEPH J. KLEIN. *B.S.*, 1906, *College of the City of New York*; *M.A.*, 1910, *New York University*. Thesis: "*The Development of Mercantile Instruments of Credit in the United States.*" Educator. Instructor, *Richmond Hill High School*, *Richmond Hill, L. I.*
56 W. 115th St., New York City.
- WILLIAM WHITFIELD LAMB. *B.A.*, 1901; *M.A.*, 1904, *Amherst College*. Thesis: "*The Syntax of the Heptameron, by Marguerite de Navarre.*" Educator. Instructor, *Manual Training High School*, Brooklyn, N. Y.
952 E. 13th St., Brooklyn, N. Y.
- GEORGES LAMOURET. *B.A.*, 1899, *University of Paris*. Thesis: "*The French Stage and its Comedians in the Eighteenth Century.*" Educator. Instructor in French, *College of the City of New York*.
139th St. & St. Nicholas Terrace, New York City.
- FLOYD SWALLOW LEACH. *B.A.*, 1903, *Wesleyan University*; *M.A.*, 1905, *Yale University*; *B.D.*, 1908, *General Theological Seminary*. Thesis: "*Individual Characteristics Contributory to Vagrancy.*" Clergyman. Assistant to the Superintendent of *St. Luke's Hospital*, New York City.
St. Luke's Hospital, Cathedral Heights, Amsterdam Ave., and 113th St., New York City.

- ELIAS LIEBERMAN. B.A., 1903, *College of the City of New York*; M.A., 1906, *New York University*. Thesis: "The Local Short Story." Educator. Instructor, Public School No. 62, New York City.
625 Jefferson Place, New York City.
- GABRIEL R. MASON. B.A., 1903, *College of the City of New York*; M.A., 1907, *New York University*. Thesis: "The Relation of the God of Spinoza to the Absolute of Schelling." Educator. Instructor, Public School No. 62, New York City.
1341 Clinton Ave., New York City.
- JOHN HENRY MENEELY. B.A., 1893; M.A., 1896, *University of Illinois*. Thesis: "A Study of American Drama Prior to 1801." Educator. Instructor, Manual Training High School, Brooklyn, N. Y.
220 Sixth Ave., Brooklyn, N. Y.
- FRANCIS ROUGIER. B.A., 1906, *Fordham University*; M.A., 1907, *New York University*. Thesis: "The Influence of Plautus on French Comedy." Educator. Instructor in French, *College of the City of New York*; Lecturer in French, *School of Commerce, Accounts and Finance, New York University*.
262 W. 54th St., New York City.
- IGNATZ SAYMON. B.A., 1900, *College of the City of New York*; LL.B., 1904; M.A., 1908, *New York University*. Thesis: "Primitive Education." Educator. Instructor, Public School No. 77, New York City.
157 W. 111th St., New York City.
- ISIDORE SPRINGER. B.S., 1901, *College of the City of New York*; Pd.M., 1907, *New York University*. Thesis: "Mental Reproductive Types in Arithmetic." Educator. Instructor, Public School No. 84, and Evening Elementary School No. 144, Brooklyn, N. Y.
34 Dennington Ave., Woodhaven, L. I.
- CHARLES AUGUSTUS TONSOR, JR. B.A., 1907; M.A., 1908, *New York University*. Thesis: "Demosthenes: Guilty of Bride-taking or of a Blunder in Statesmanship." Educator. Instructor, Public School No. 17, Brooklyn, N. Y.
218 Clermont Ave., Brooklyn, N. Y.
- WILLIAM PARKER WHARTON. B.A., 1902; M.A., 1906, *Columbia University*. Thesis: "Individual Types in School Children." Educator. Instructor, *High School of Commerce, New York City*.
2081 Vyse Ave., New York City.

1912.

- ALEXANDER BOECKER. B.S., 1898, *College of the City of New York*; M.A., 1906, *New York University*. Thesis: "An Italian Source of Shakespeare's 'Julius Cæsar.'" Educator. Instructor, Manual Training High School, Brooklyn, N. Y.
494 3rd St., Brooklyn, N. Y.

GUERNSEY J. BORST. *B.A.*, 1903, *Cornell University*; *Pd.M.*, 1909; *Pd. D.*, 1911, *New York University*. *Thesis*: "Experimental Study of the Learning Process in Latin." *Educator*. *Supervising Principal*, Edgewood (R. I.) *Public Schools*.

Norwood Avenue Grammar School, Edgewood, R. I.

AMERICO ULYSSES NICHOLAS CAMERA. *Ph.B.*, 1900, *New York University*; *M.A.*, 1901, *Columbia University*. *Thesis*: "Italian Influences upon French Comedy before Moliere." *Educator*. *Tutor in French*, College of the City of New York.

575 West Ave., Flatbush, Brooklyn, N. Y.

LOUIS S. FRIEDLAND. *B.A.*, 1905, *College of the City of New York*; *M.A.*, 1910, *New York University*. *Thesis*: "Spenser's Early Poems: Studied in Connection with the Literature of the French Renaissance." *Educator*. *Tutor in English*, College of the City of New York.

901 Prospect Ave., New York City.

ENOCH C. LAVERS. *B.A.*, 1890, *University of Chicago*; *Ph.D.*, 1893, *Illinois Wesleyan University*; *Pd.D.*, 1894, *New York University*. *Thesis*: "The Moral Philosophy of Richard Price." *Educator*.

293 Academy St., Jersey City, N. J.

PIERRE J. MARIQUE. *B.S.*, 1909; *Pd.D.*, 1911, *New York University*. *Thesis*: "Vocational Education in Belgium." *Educator*. *Instructor in French*, College of the City of New York.

345 E. 193rd St., New York City.

FLOYD J. MELVIN. *B.S.*, 1907; *M.A.*, 1909, *New York University*. *Thesis*: "Constructive Socialism." *Educator*. *Instructor*, Commercial High School, Brooklyn, N. Y.

941 St. John's Place, Brooklyn, N. Y.

NATHAN PEYSER. *B.S.*, 1906; *M.A.*, 1910, *New York University*. *Thesis*: "Dr. W. A. Lay—Pioneer in the Field of Experimental Pedagogy." *Educator*. *Instructor*, Public School No. 4, Bronx, New York City.

641 E. 175th St., New York City.

DOCTORS OF SCIENCE OF NEW YORK UNIVERSITY—1899-1912

1899.

- WILLIAM CHARLES ALPERS. *Hanover H.S. (Lyceum); University of Goettingen, 1871-72. Thesis: "The Oils and Terpenes of Aralia Nudicaulis." Chemist. President, Alpers' Chemical Co. and Alpers' Pharmacy, New York City. Trustee, New York College of Pharmacy. Editor, Deutsche Apotheker Zeitung, New York City.*
495 Columbus Ave., New York City.

1901.

- JOHN ALFRED MANDEL. *University of Berlin. Thesis: "Glycuronic or Glucuronic Acid." Educator and Chemist. Professor of Chemistry, University and Bellevue College Medical College, New York University.*
338 E. 26th St., New York City.
- JOHN D. MELVILLE. *B.A., 1892, University of London; Pd.M., 1895; Pd.D., 1896; M.A., 1897, New York University. Thesis: "Ambitus in Ancient Rome." Educator. Principal, Public School No. 84, Long Island City, L. I.*
167 S. Oxford St., Brooklyn, N. Y.

1904.

- FREDERICK G. REYNOLDS. *B.A., 1891, College of the City of New York; LL.B., 1896; M.S., 1898, New York University. Thesis: "The Viscosity Coefficient of Air and the Effect of the Roentgen Ray thereon." Educator. Assistant Professor of Mathematics and Secretary of the Faculty, College of the City of New York.*
144 W. 132nd St., New York City.

1905.

- FREDERICK MALLING PEDERSEN. *B.S., 1889, College of the City of New York; M.S., 1902, New York University. Thesis: "The Influence of Molecular Constitution upon the Internal Friction of Gases. Educator. Assistant Professor of Mathematics, College of the City of New York.*
452 W. 144th St., New York City.

1906.

- MAXIMILIAN PHILIP. *B.S., 1898; College of the City of New York; M.S., 1903, New York University. Thesis: "Form and Movements of Liquid Jets." Educator. Instructor in Mathematics, College of the City of New York.*
100 W. 141st St., New York City.

1908.

MARTIN A. ROSANOFF. *Ph.B.*, 1895, *New York University*. *Thesis*: "Determination of Chlorides and Bromides in the Presence of Cyanides." Educator. Head of Department of Chemistry and Director of Chemical Laboratories, Clark University; Professor of Organic Chemistry, Clark College.

7 Downing St., Worcester, Mass.

1909.

FREDERICK E. BREITHUT. *B.S.*, 1900, *College of the City of New York*. *Thesis*: "The Partial Vapor Pressures in Binary Mixtures." Educator. Instructor in Chemistry, *College of the City of New York*.

569 W. 171st St., New York City.

DAVID HEIDOM RAY. *B.A.*, 1897, *College of the City of New York*; *B.S.* 1901; *M.A.*, 1901, *Columbia University*; *C.E.*, 1902, *New York University*. *Thesis*: "The Science of Mechanics." Engineer. Consulting Engineer.

27 W. 33rd St., New York City.

1910.

JOHN PAUL SIMMONS. *B.S.*, 1904, *New York University*. *Thesis*: "Isomerisms in the Cobalt Ammines." Educator. Assistant Professor of Chemistry, *New York University*.

University Heights, New York City.

1911.

ERICH HAUSMANN. *B.S.*, 1907, *Cooper Institute*; *E.E.*, 1908, *Brooklyn Polytechnic Institute*; *M.S.*, 1910, *New York University*. *Thesis*: "Electric Wave Propagation and Distortion Along Conductors." Educator. Assistant Professor of Electrical Engineering, *Brooklyn Polytechnic Inst.*; Lecturer on Electricity, *Graduate School, New York University*.

749 Union St., Brooklyn, N. Y.

1912.

EPHRAIM M. EWING. *B.A.*, 1909; *M.A.*, 1910, *University of Missouri*. *Thesis*: "The Venous Pulse." Educator. Instructor in Physiology, *University and Bellevue Hospital Medical College*, and *Graduate School, New York University*.

338 E. 26th St., New York City.

ALBERT P. PACINI. *B.S.*, 1905, *College of the City of New York*; *M.S.*, 1911, *New York University*. *Thesis*: "Metamorphism in Portland Cement." Chemist. Chemist, Board of Water Supply, *City of New York*. Fellow, *New York Academy of Sciences*.

275 W. 140th St., New York City.

STATISTICAL SUMMARY

Doctors of Philosophy		Doctors of Science	
Men	205 (13 deceased)	Men	13
Women	11	Women	0
Total	216	Total	13
Teachers (8 women)	103	Teachers	10
Clergymen	88	Chemists	2
Lawyers	5	Engineer	1
Physicians	3		
Broker	1		13
Journalist	1		
Actuary	1		
Statistician	1		
Manufacturer	1		
Editor (woman)	1		
Author (woman)	1		
Unknown (1 woman)	10		
	216		

THE COUNCIL OF THE UNIVERSITY

The Council of New York University, incorporated the 18th of April, 1831, is a self-perpetuating body, consisting of thirty-two members, each holding office for four years, or until his successor is elected. One-fourth of the members go out of office each year on the fourth Monday of October, when their successors are elected by the council.

Officers of the Council

President—GEORGE ALEXANDER, D.D.

Vice-President,—EUGENE STEVENSON

Secretary—GEORGE A. STRONG

Treasurer—WILLIAM M. KINGSLEY

Roll of the Council

Date of Election	Expiration of Term
1883. WILLIAM S. OPDYKE.....	1915
1887. GEORGE ALEXANDER, D.D.....	1915
1890. WILLIAM F. HAVEMEYER.....	1914
1891. HENRY M. MACCRACKEN, D.D., LL.D.....	1914
1892. JOHN P. MUNN, M.D.....	1916
1898. WILLIS FLETCHER JOHNSON, L.H.D.....	1915
1898. THOMAS E. GREACEN.....	1915
1899. WILLIAM M. KINGSLEY.....	1914
1900. JAMES G. CANNON.....	1914
1903. CLARENCE H. KELSEY.....	1915
1903. WILLIAM H. PORTER.....	1915
1903. JOHN H. MACCRACKEN, Ph.D.....	1914
1904. EUGENE STEVENSON.....	1916
1904. JAMES WARREN LANE.....	1913
1905. FRANK A. VANDERLIP.....	1913
1907. DAVID A. BOODY.....	1913
1907. HENRY W. HODGE.....	1916
1907. GEORGE A. STRONG.....	1916
1908. JAMES ABBOTT.....	1916
1908. HENRY M. BROWN, D.D.....	1913
1908. SCOTT FOSTER.....	1915
1909. CLELAND B. McAFEE.....	1913
1909. BENJAMIN T. FAIRCHILD.....	1913
1910. ALEXANDER S. LYMAN.....	1916
1910. ROBERT MACKENZIE, D.D., LL.D.....	1915
1910. GEORGE A. HEARN.....	1913
1911. ELMER ELLSWORTH BROWN, Ph.D., LL.D.....	1913

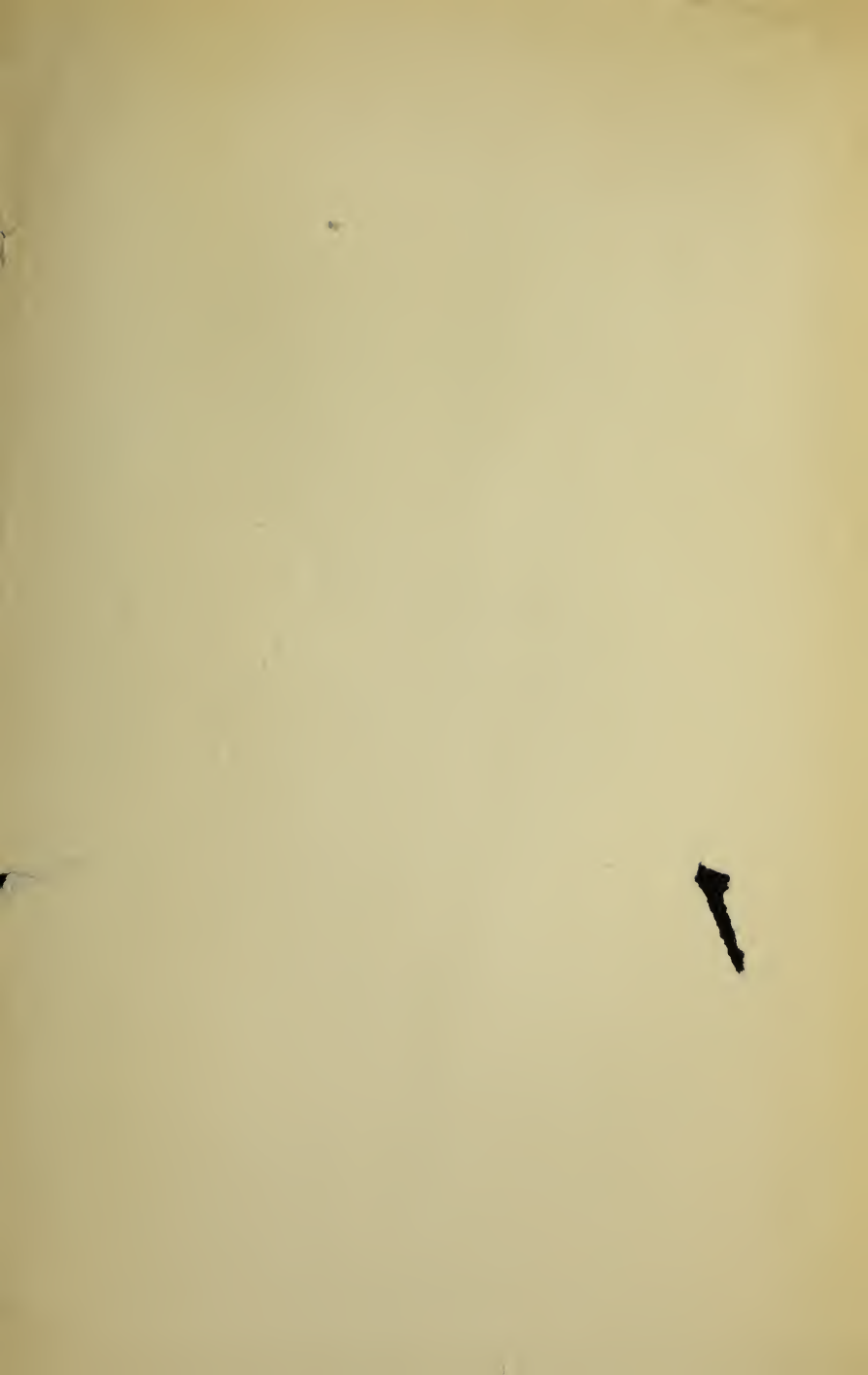
SUMMARY OF UNIVERSITY STATISTICS

1912-1913

DIVISIONS	Professors	Lecturers	Instructors	Assistants	Other Officers	Total Officers	Total Students	Degrees Conferred, 1912
I. ARTS AND SCIENCE.								
1. College of Arts and Pure Science.....							201	28
2. School of Applied Science.....							208	54
3. Graduate School....							328	45
	44	52	22	13	15	146		
4. Summer School.....							645	
5. School of Pedagogy..							378	15
6. Washington Square Collegiate Div							449	42
7. School of Commerce..	13	23	11	9	6	62	1,800	118
II. LAW.								
8. University Law School	9	3	5		4	21	643	195
9. Woman's Law Class..	1		3			4	60	
III. MEDICINE.								
10. University Medical College.....	41	20	43	22	50	179	518	80
11. Veterinary College....	12	2	1			15	16	3
IV. GENERAL.								
12. Library.....					7	7		
Grand Total.....	123	100	85	44	82	434	5,246	580
Deduct for names counted twice.....	11	10	4	7		25	275	
Net Total.....	112	90	81	37	82	409	4,971	580

In the above total "auditors" are not reckoned, nor students of the Extramural Division. More than one thousand of these students are in attendance in the various schools of the University.

Special circulars of the various schools will be sent free upon application to the Registrar, New York University, Washington Square, N. Y. In writing please state which circular is desired. The General Catalogue will be sent upon receipt of twenty-five cents.





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NEW YORK UNIVERSITY
SUMMARY OF UNIVERSITY STATISTICS 1913-1914

DIVISIONS	Professors	Lecturers	Instructors	Assistants	Other Officers	Total Officers	Total Students	Degrees Conferred, 1913
I. ARTS AND SCIENCE.								
1. College of Arts and Pure Science	25		14	9	5	53	375	51
2. School of Applied Science.....	20	6	15	5	3	49	282	35
3. Graduate School.....	41	6	7			54	395	42
4. School of Pedagogy ...	7	13	5			25	445	12
5. Washington Square College	32	4	16			52	446	39
6. Summer School.....	29	49		6		84	933	
II. LAW.								
7. School of Law.....	11	4	4		4	23	678	132
8. Woman's Law Class ..	1		3			4	73	
III. MEDICINE.								
9. University Medical College.....	51	19	46	12	51	179	534	75
10. Veterinary College....	10	12	2			24	11	6
VI. COMMERCE.								
11. School of Commerce, Accounts and Finance	14	29	24	4	3	74	2,190	126
V. GENERAL.								
12. Library.....					8	8		
Grand Total.....	141	142	136	36	74	629	6,362	518
Duplications.....	100	40	32	2		174	381	
Net Total.....	141	102	104	34	74	455	5,981	518

In the above total "auditors" are not reckoned, nor students of the Extramural Division. More than fifteen hundred of these students are in attendance in the University.

Special circulars of the various schools will be sent free upon application to the Registrar, New York University, Washington Square, N. Y. In writing please state which circular is desired. The General Catalogue will be sent upon receipt of twenty-five cents.